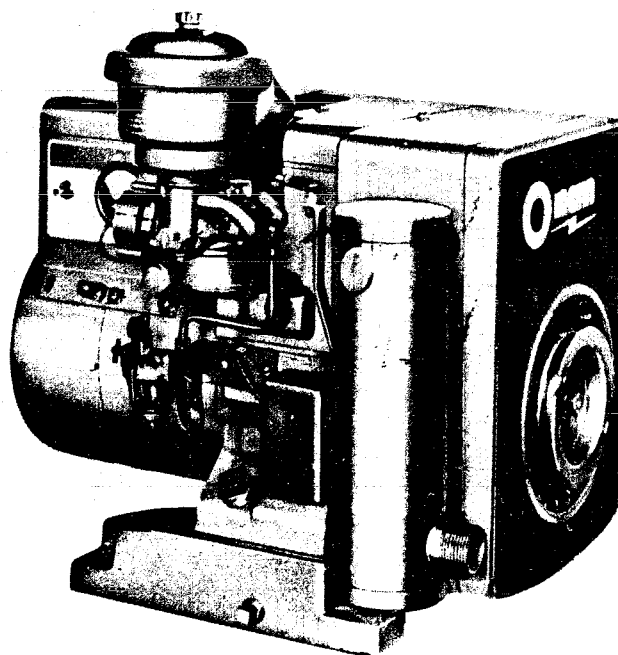


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Parts Manual AK Series GenSets



925-0220

5-82 (Spec A-N)

REPLACES

5-79 (Spec A-N)

Printed in U.S.A.

GENERAL INFORMATION

INSTRUCTIONS FOR ORDERING REPAIR PARTS

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, please furnish all information requested.

Always refer to the nameplate on your unit.

1. Always give the MODEL, SPEC NO. and SERIAL NO.

The diagram shows a rectangular nameplate form. At the top, it features the 'McGraw-Edison' logo in a bold, sans-serif font, flanked by two small circles. Below this is the 'Onan' logo in a stylized, bold font. Under the Onan logo is a large rectangular box labeled 'MODEL AND SPEC NO.'. Below that is another rectangular box labeled 'SERIAL NO.'. The bottom right corner of the form is folded over, revealing a smaller section. The text 'M-1149' is printed to the right of the bottom right corner of the form.

For handy reference, insert "YOUR" nameplate information in the spaces above.

M-1149

2. Do not order by reference number; always use part number and description.
3. Give the part number, description and quantity needed of each item. If an older part cannot be identified, return the part prepaid to your dealer or nearest Onan Parts and Service Center. Print your name and address plainly on the package. Write a letter to the same address stating the reason for returning the part.
4. State definite shipping instructions. Any claim for loss or damage to your unit in transit should be filed promptly against the transportation company making the delivery. Shipments are complete unless the packing list indicates items are back ordered.

Prices are purposely omitted from this Parts Manual due to the confusion resulting from fluctuating costs, import duties, sales taxes, exchange rates, etc.

For current parts prices, consult your Onan Dealer, Distributor or Parts and Service Center.

"En esta lista de partes los precios se omiten de proposito, ya que bastante confusion resulto de fluctuaciones en los precios, derechos aduanales, impuestos de venta, cambios extrajeros, etc."

Consiga los precios vigentes de su distribuidor de productos "ONAN."

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INTRODUCTION

This catalog applies to the standard AK Generator Sets as listed below. Parts are arranged in groups of related items. Each illustrated part is identified by a reference number corresponding to the same reference number in the illustration. Parts illustrations are typical. Using the MODEL and SPEC NO. from the set nameplate, select parts from this catalog that apply to your set. Unless otherwise mentioned in the description, parts are interchangeable between models. *Right* and *left* set sides are determined by FACING the engine end (front) of the set.

ELECTRIC GENERATOR SET DATA TABLE

£ MODEL AND SPEC NO.	TYPE	ELECTRICAL DATA				PARTS KEY
		WATTS	VOLTS**	HERTZ	RPM	
0.5AK-1M/*	MANUAL	500	120 AC	60	1800	1
0.5AK-2M/*	MANUAL	500	240 AC	60	1800	1
0.5AK-1R/*	REMOTE	500	120 AC	60	1800	2
0.5AK-2R/*	REMOTE	500	240 AC	60	1800	2
0.7AK-1M/*	MANUAL	750	120 AC	60	1800	3
0.7AK-2M/*	MANUAL	750	240 AC	60	1800	3
0.7AK-1R/*	REMOTE	750	120 AC	60	1800	4
0.7AK-2R/*	REMOTE	750	240 AC	60	1800	4
0.5AK-206E/*	BAT. CHG.	500	6 DC	—	2400	5
0.6AK-212E/	BAT. CHG.	600	12 DC	—	2300	6
0.6AK-224E/	BAT. CHG.	600	24 DC	—	2200	6
0.7AK-224E/*	BAT. CHG.	750	24 DC	—	2200	7
0.7AK-232E/*	BAT. CHG.	750	32 DC	—	2200	7
1.2AK-51M/*	MANUAL	1250	120 AC	50	3000	8
1.2AK-52M/*	MANUAL	1250	240 AC	50	3000	8
1.2AK-51P/*	PORTABLE	1250	120 AC	50	3000	9
1.2AK-52P/*	PORTABLE	1250	240 AC	50	3000	9
1.5AK-1M/*	MANUAL	1500	120 AC	60	3600	8
1.5AK-2M/*	MANUAL	1500	240 AC	60	3600	8
1.5AK-1P/*	PORTABLE	1500	120 AC	60	3600	9
1.5AK-2P/*	PORTABLE	1500	240 AC	60	3600	9
1.5AK-115M/*	MANUAL	1500	115 DC	—	2600	10
FIRE DEPARTMENT MODELS—SEE SPECIAL GROUPS (Formerly designated by Number 114)						

* - The Specification Letter advances (A to B, B to C, etc.) with manufacturing changes.

** - Reference to 120, 240, and 120/240 volt also applies to 115, 230, and 115/230 volt.

* - Identical to early models stamped 05AK-212EV/.

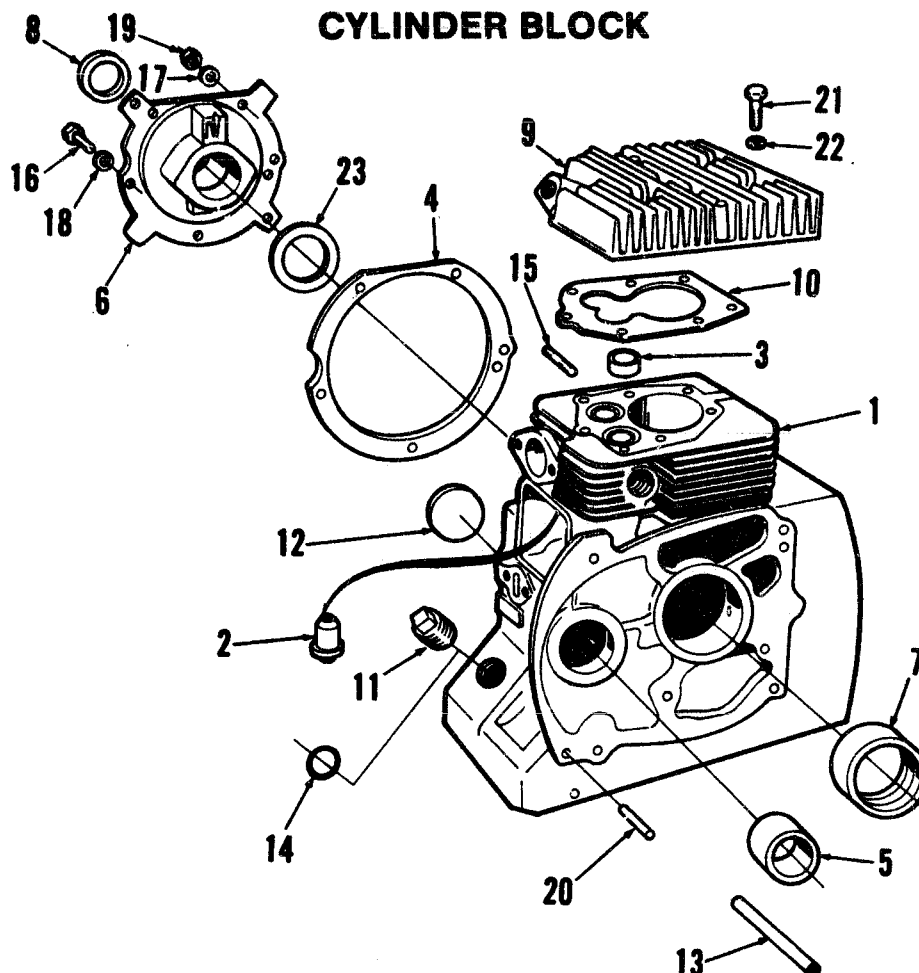
£ - New model designation shown, begin during 1969. Previous designations used a zero in place of the decimal in the kW rating. EXAMPLE .5AK was formerly 05AK and 1.5AK was formerly 105AK. Also previously a V was used to designate Vacu-Flo cooling and L designated automatic idle control.

Note: Hertz is a unit of frequency equal to one cycle per second.

NOTICE!

ITEMS REFERENCED AS **OPTIONAL** INDICATE PART IS FACTORY INSTALLED AND MAY NOT BE APPLICABLE TO ALL MODELS. FOR FIELD CONVERSIONS ADDITIONAL PARTS ARE USUALLY REQUIRED.

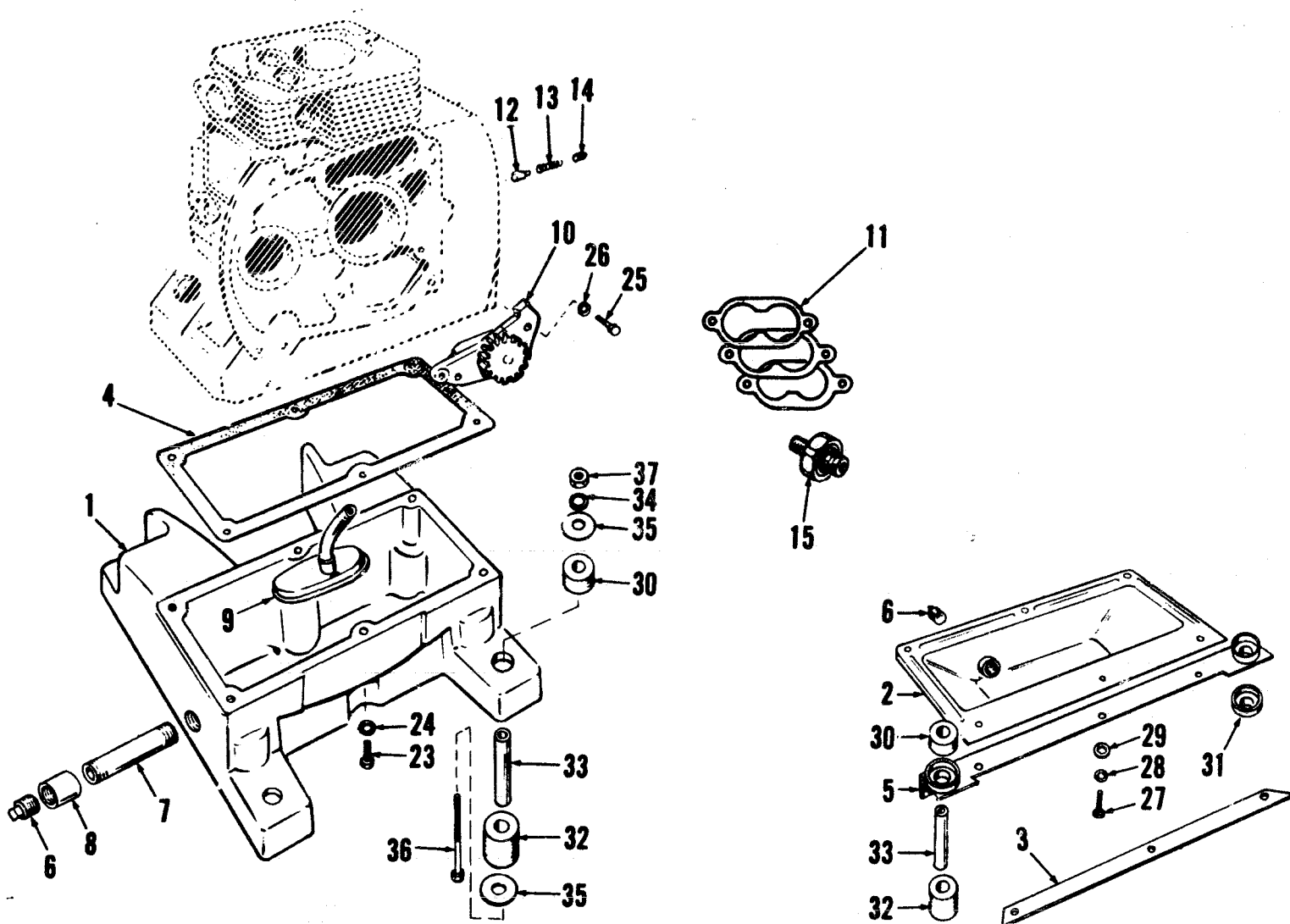
CYLINDER BLOCK



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	CYLINDER BLOCK ASSEMBLY (Includes Parts Marked *)			10	110-0836	1	Gasket, Cylinder Head
	110-0901	1	Key 8,9	11	505-0130	1	Plug, Oil Fill
	110-0873	1	Key 1 thru 6 and Key 10	12	517-0048	1	*Plug, Expansion Camshaft Rear Bearing Opening
	110-0873	1	Key 7 (24 Volt Spec A thru J and All 32 Volt)	13	120-0387	1	*Tube, Crankcase - Key 8,9 (Also Key 7; 24 Volt Begin Spec K)
	110-0901	1	Key 7 (24 Volt Begin Spec K)	14		1	Gasket, Oil Fill Plug (Used on Some Early Models) Order 505-0130 Plug
2	110-0441	2	*Guide, Valve	15	520-0526	4	*Stud, Rear Bearing Plate Mounting
3	*INSERT, EXHAUST VALVE SEAT			16	800-0028	1	Screw, Cap - Hex Head - Bottom Hole of Bearing Plate (5/16-18 x 1" lg)
	110-0826	1	Standard	17	850-0045	4	Washer, Spring - Lock - Rear Bearing Plate (5/16")
	110-0826-02	1	.002" Oversize	18	526-0065	1	Washer, Flat (Copper) - Rear Bearing Plate (Bottom Hole) (21/64" ID x 9/16" OD x 1/16" Thk)
	110-0826-05	1	.005" Oversize	19	110-0445	4	Nut, Hex - Rear Bearing Plate - Special
	110-0826-10	1	.010" Oversize	20	516-0012	2	*Pin, Dowel - Gear Cover Alignment
	110-0826-25	1	.025" Oversize	21	SCREW, CYLINDER HEAD MOUNTING		
4	101-0257	1	*Kit, Bearing Plate Gasket		110-0879	4	Special
5	101-0367	2	*Bearing, Camshaft		110-0284	3	Special
6	*PLATE, REAR BEARING—GENERATOR TO ENGINE (Less Bearing)			22	526-0122	7	Washer, Flat (Hardened) - Cylinder Head Mounting (11/32" ID x 23/32" OD x 1/8" Thk)
	101-0233	1	Key 1,2,3,4,5,6,10	23	104-0776	1	Shim, Rear Bearing Plate (.005")
	101-0252	1	Key 8,9				
	101-0233	1	Key 7 (24 Volt Spec A thru J and All 32 Volt)				
	101-0252	1	Key 7 (24 Volt Begin Spec K)				
7	*BEARING, PRECISION CRANKSHAFT (Front to Rear)						
	101-0290	2	Standard				
	101-0290-02	2	.002" Undersize				
	101-0290-10	2	.010" Undersize				
	101-0290-20	2	.020" Undersize				
	101-0290-30	2	.030" Undersize				
8	509-0041	1	Seal, Crankshaft Rear Oil				
			NOTE: Included in Gasket Kit 168-0062				
9	HEAD, CYLINDER						
	110-1778	1	Standard Compression (Gasoline Sets)				
	110-1779	1	High Compression (Gaseous Sets)				

* - Parts Included in Cylinder Block Assembly.

OIL BASE, OIL PUMP AND MOUNTING HARDWARE



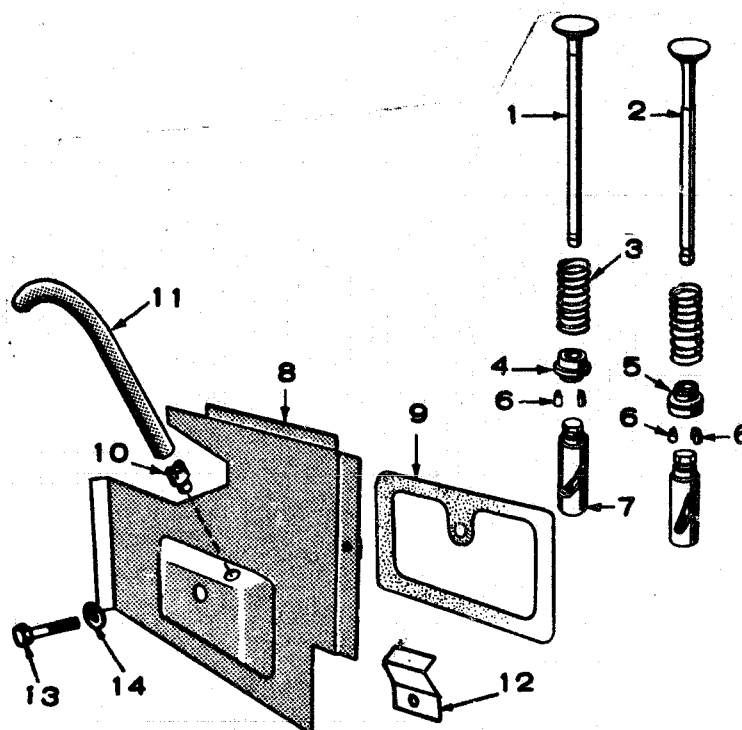
OIL BASE, OIL PUMP AND MOUNTING HARDWARE

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	
1	BASE, OIL 102-0119	1	Key 1,2,6,7 (Prior to Serial #627846) - 3 Pints	28	850-0050	6	Washer, Lock - Spring Oil Pump Mounting—Key 9 (3/8")	
	102-0439	1	Key 1,2,6,7 (Begin Serial #627846) - 3-1/2 Pints	29	526-0127	3	Washer, Flat - Oil Pan Mounting - Key 9 (13/32" ID x 25/32" OD x 1/8" Thk)	
	102-0439	1	Key 3,4,5,8,10 - 3-1/2 Pints		402-0229	4	Cushion Assembly, Mounting - Key 1 thru 8 & 10 (Includes Parts Marked †)	
2	102-0319	1	Pan, Oil - Key 9					
3	102-0689	1	Stiffener, Oil Pan - Key 9					
4	102-0018	1	Gasket, Oil Base or Oil Pan Mounting	30	CUSHION, RUBBER MOUNTING (Upper)			
5	403-0381	1	Bracket, Engine Mounting	402-0044	4	Key 1,2,6,7 Prior to Serial #637846		
6	PLUG, OIL DRAIN 505-0110	1	Key 1,2,3,4,6,8,9,10	402-0076	4	†Key 1,2,6,7 Begin Serial #637846		
	505-0054	1	Key 7 - Begin Spec L	402-0044	4	Key 3,4,5,8,10 Prior to Serial #632290		
	505-0076	1	Key 5,7 - Key 9 - Begin Spec L	402-0076	4	†Key 3,4,5,8,10 Begin Serial #632290		
			Nipple, Pipe (3/8" x 3") - Oil Drain Extension - Optional	402-0076	4	†Key 7,9		
8	505-0028	1	Coupling, Pipe (3/8") - Oil Drain Extension - Optional	31	402-0140	2	Cup, Centering, Upper Cushions (Generator End Key 9)	
9	CUP, OIL PUMP INTAKE (Includes Cup, Screen & Pipe)			32	CUSHION, RUBBER MOUNTING (Lower)			
	120-0571	1	Key 7 (24 Volt Begin Spec K)	402-0045	4	†Key 1 thru 8 & 10		
	120-0389	1	Key 8,9 (Spec A thru F)	402-0045	2	Key 9 - Generator End		
	120-0571	1	Key 8,9 (Begin Spec G)	402-0144	2	Key 9 - Engine End		
10	PUMP, OIL			33	BUSHING, CUSHION SPACING			
	120-0394	1	Key 7 (24 Volt Begin Spec K)	402-0048	4	Key 1,2,6,7 Prior to Serial #637846		
	120-0200	1	Key 8,9 (Spec A thru F)	402-0141	4	†Key 1,2,6,7 Begin Serial #637846		
	120-0394	1	Key 8,9 (Begin Spec G)	402-0048	4	Key 3,4,5,8,10 Prior to Serial #632290		
11	120-0161	1	Gasket, Kit - Oil Pump - Key 8,9 (Key 7; 24 Volt Begin Spec K)	402-0141	4	†Key 3,4,5,8,10 Begin Serial #632290		
12	120-0012	1	Plunger, Oil By- Pass - Key 8, 9 (Key 7; 24 Volt Begin Spec K)	402-0142	2	Key 9 (Engine End)		
13	120-0140	1	Spring, Oil By-Pass - Key 8,9 (Key 7; 24 Volt Begin Spec K)	402-0141	2	Key 9 (Generator End)		
14	505-0274	1	Plug, Oil By-Pass - Key 8,9 (Key 7; 24 Volt Begin Spec K) (1/8" x 1/4")	34	850-0046	4	†Washer, Lock - Spring - Set Mounting (5/16")	
15	309-0237	1	Switch, Low Oil Pressure - Optional - Key 7,8,9	35	526-0041	8	†Washer, Flat - Set Mounting (21/64" ID x 1" OD x 1/16" Thk)	
23	SCREW, CAP - HEX HEAD - OIL BASE MOUNTING			36	BOLT, CARRIAGE - SET MOUNTING			
	800-0051	3	3/8-16 x 1-1/4" lg	816-0114	4	†Key 1 thru 8 & 10 (5/16-18 x 4-1/2" lg)		
	800-0053	3	3/8-16 x 1-3/4" lg	816-0110	2	Key 9 (5/16-18 x 3-1/2" lg)		
24	850-0050	6	Washer, Lock - Spring - Oil Base Mounting (3/8")	816-0111	2	Key 9 (5/16-18 x 3-3/4" lg)		
25	800-0007	2	Screw, Cap - Hex Head - Oil Pump Mounting (1/4-20 x 1" lg) - Key 7,8,9	37	862-0015	4	†Nut, Hex - Set Mounting (5/16-18)	
26	850-0040	2	Washer, Lock - Spring - Oil Pump Mounting (1/4") Key 7,8,9					
27	806-0027	6	Screw, Cap - Counterbore - Oil Pan Mounting Key 9 - (3/8-16 x 3/4" lg)					

† - Parts Included in Mounting Cushion Assembly.

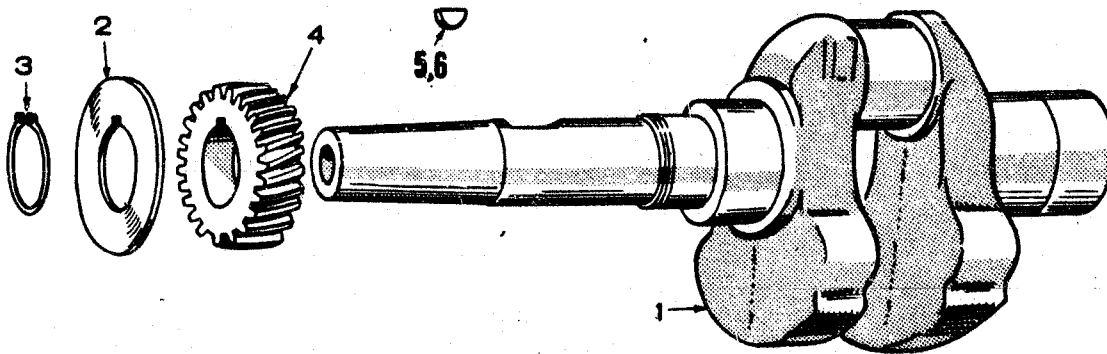
† - Parts Included in Mounting Cushion Assembly.

VALVE AND BREATHER



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	110-0828	1	Valve, Intake
2	110-0827	1	Valve, Exhaust - Stellite
3	110-0609	2	Spring, Valve
4	110-0558	1	Retainer, Valve Spring - Intake (Exhaust also for gas sets)
5	110-0540	1	Rotocap, Valve - Exhaust (None on gas sets)
6	110-0008	4	Lock, Valve Spring Retainer
7	115-0006	2	Tappet, Valve
8	110-0840	1	Cover, Valve
9	110-0832	1	Gasket, Valve Cover
10	123-0486	1	Valve, Breather with 5/16" Ball
11	503-0736	1	Hose, Breather
12	123-0788	1	Baffle, Breather - Key 3 (24 Volt Output) - Begin Spec J
13	800-0015	1	Screw, Cap - Hex Head - Valve Cover Mounting (1/4-20 x 3" lg)
14	526-0063	1	Washer, Flat (Copper) - Valve Cover Mounting (17/64" ID x 7/16" OD x 1/32" Thk)

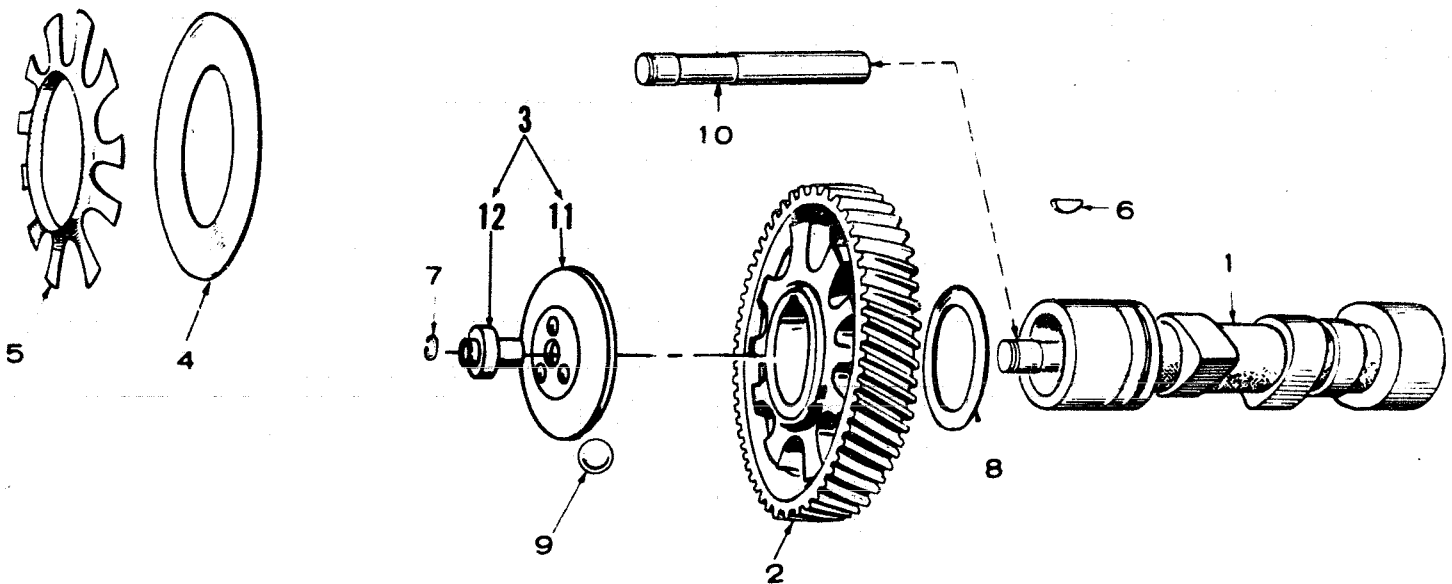
CRANKSHAFT



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	104-1276	1	Crankshaft (Includes Parts Marked *)
2	104-0050	1	Washer, Crankshaft Gear
3	518-0012	1	Ring, Lock - Crankshaft Gear Washer
4	104-0048	1	Gear, Crankshaft
5	515-0001	1	*Key, Gear - Crankshaft
6	515-0113	1	*Key

* - Parts included in 104-1276 Crankshaft Kit.

CAMSHAFT

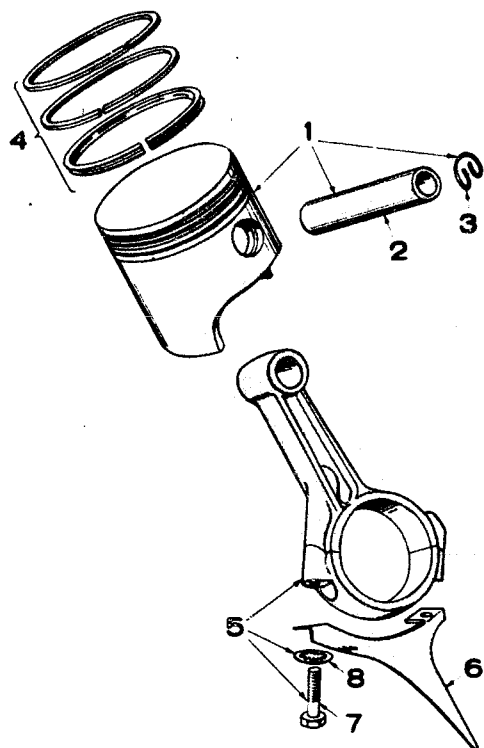


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	105-0139	1	Camshaft (Includes Center Pin)
2	105-0377	1	Gear, Camshaft (Includes Flyball & Spacer)
3	150-1695	1	Kit, Governor Cup Replacement (Includes Parts Marked *)
4	150-0077	1	Plate, Governor Ball - Prior to Serial #668253 During Spec H and Begin Serial #370369 During Spec M
5	150-1257	1	Spacer, Governor Ball

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
6	515-0001	1	Key, Gear - Camshaft
7	150-0078	1	Ring, Lock - Camshaft Center Pin
8	105-0004	1	Washer, Camshaft Thrust
9	BALL, FLY - GOVERNOR		
	510-0015	10	Key 1 thru 7 & 10
	510-0015	5	Key 8,9
10	150-0075	1	Pin, Camshaft Center
11	150-1520	1	*Cup, Governor
12	150-1519	1	*Hub, Governor Cup

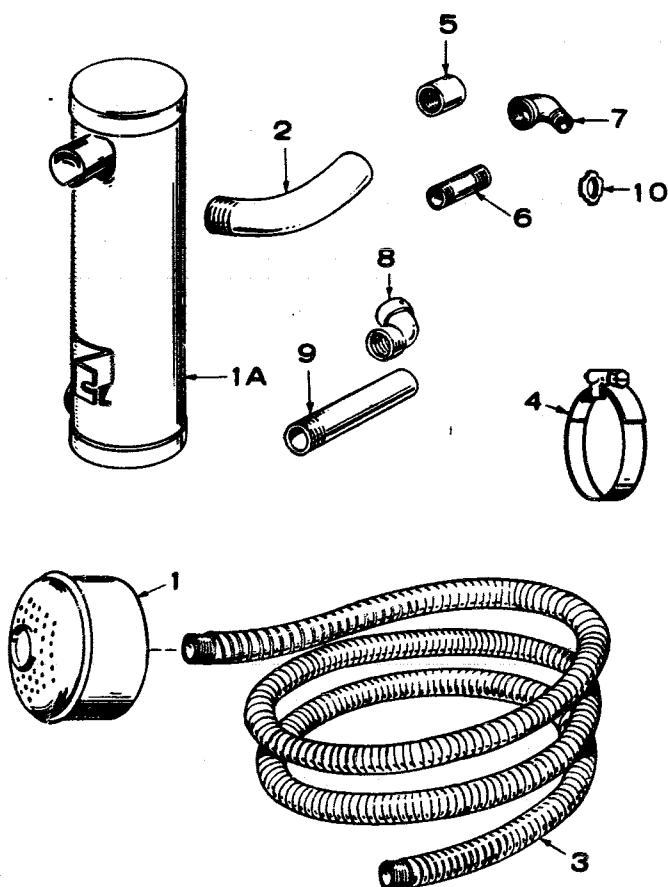
* - Parts Included in 150-1695 Governor Cup Replacement Kit.

PISTON AND ROD



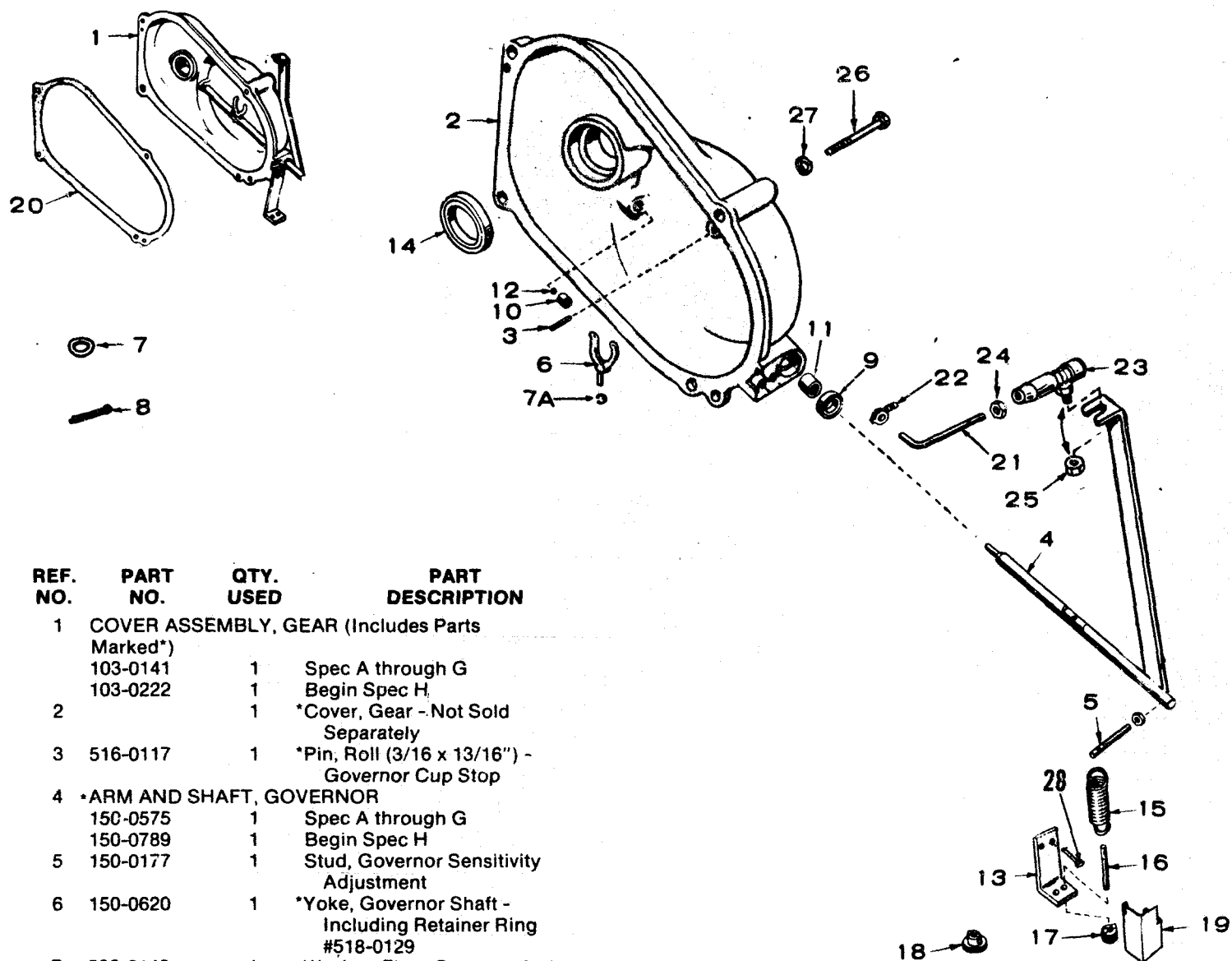
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	PISTON AND PIN ASSEMBLY		
	112-0075	1	Standard
	112-0075-10	1	.010" Oversize
	112-0075-20	1	.020" Oversize
	112-0075-30	1	.030" Oversize
	112-0075-40	1	.040" Oversize
2	112-0020	1	Pin, Piston
3	112-0013	2	Ring, Retaining, Piston Pin
4	RING SET		
	113-0012	1	Standard
	113-0012-10	1	.010" Oversize
	113-0012-20	1	.020" Oversize
	113-0012-30	1	.030" Oversize
	113-0012-40	1	.040" Oversize
5	ROD, CONNECTING		
	114-0095	1	Standard
	114-0095-10	1	.010" Undersize
	114-0095-20	1	.020" Undersize
	114-0095-30	1	.030" Undersize
6	DIPPER		
	114-0089	1	Key 1 thru 6 & 10
	114-0089	1	Key 7 (24 Volt Spec A thru J)
7	114-0023	2	Screw, Rod Cap (Special)
8	854-0014	2	Washer, Lock (I.T. Shakeproof) (1/4")

EXHAUST SYSTEM



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	MUFFLER, EXHAUST—PRIOR TO SPEC H		
	155-0488	1	Key 1 thru 7 & 10
	155-0487	1	Key 8,9
1A	MUFFLER, EXHAUST—BEGIN SPEC H		
	155-0692	1	Pressure Cooled Models
	155-0696	1	Vacu-Flo Cooled Models
2	155-0691	1	Tube, Muffler, Exhaust - Pressure Cooled Models - Begin Spec H
3	TUBE, EXHAUST, FLEXIBLE		
	155-0490	1	Key 2,4,7 - Spec A thru G
	155-0727	1	Key 2,4,6,7,8 - Begin Spec H
4	503-0189	1	Clamp, Muffler - Begin Spec H
5	505-0029	1	Coupling, Exhaust Pipe (3/4") - Vacu-Flo Cooled Models - Spec A thru G
6	NIPPLE, PIPE, EXHAUST		
	505-0332	1	Pressure Cooled Models - Spec A thru G
	505-0165	1	Vacu-Flo Models - Spec A through G
	505-0102	1	Vacu-Flo Models - Begin Spec H
7	505-0051	1	Elbow, Street (3/4" x 90°) - Spec A through G
8	505-0132	1	Elbow, Pipe (3/4" x 90°) - Exhaust - Vacu-Flo Models - Spec A through G
9	505-0431	1	Nipple, Half (3/4") - Begin Spec H, Vacu-Flo Cooled Models
10	331-0038	1	Locknut, Chase (3/4") - Exhaust

GEARCASE

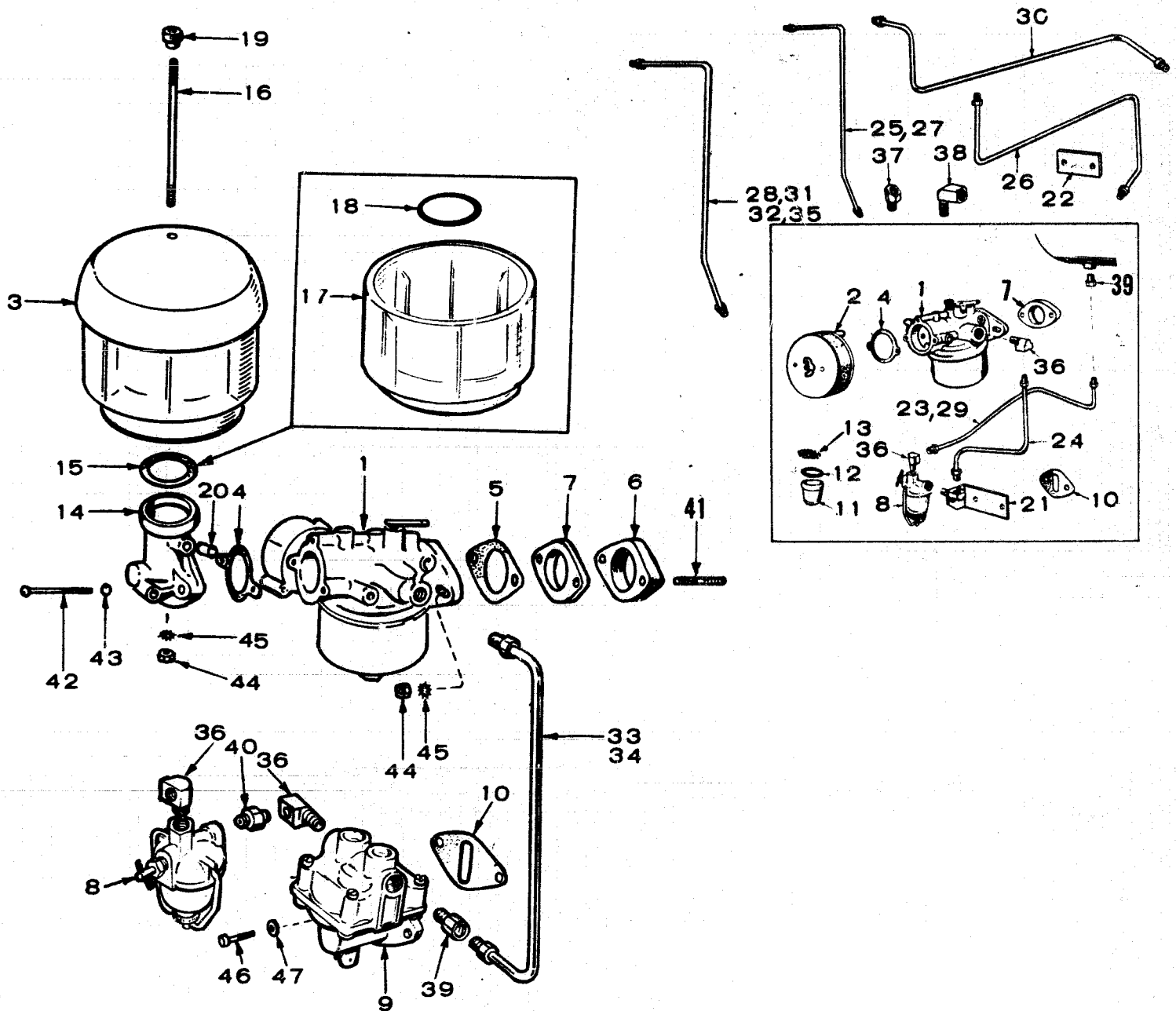


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	COVER ASSEMBLY, GEAR (Includes Parts Marked*)		
	103-0141	1	Spec A through G
	103-0222	1	Begin Spec H
2		1	*Cover, Gear - Not Sold Separately
3	516-0117	1	*Pin, Roll (3/16 x 13/16") - Governor Cup Stop
4	*ARM AND SHAFT, GOVERNOR		
	150-0575	1	Spec A through G
	150-0789	1	Begin Spec H
5	150-0177	1	Stud, Governor Sensitivity Adjustment
6	150-0620	1	*Yoke, Governor Shaft - Including Retainer Ring #518-0129
7	526-0140	1	Washer, Flat - Governor Yoke - (Not used on later models) (7/32 ID x 3/8 OD x 18 Gauge Thk)
7A	518-0129	1	*Ring, Governor Yoke Retainer (Only models with grooved yoke)
8	516-0036	1	Pin, Cotter - Governor Yoke (1/16" x 3/8") - Not used on later models
9	509-0008	1	*Seal, Oil - Governor Shaft
10	510-0008	1	*Bearing, Governor Shaft - Lower
11	510-0013	1	*Bearing, Governor Shaft - Upper
12	510-0014	1	*Ball, Governor Shaft Thrust
13	150-0156	1	*Bracket, Governor Spring
14	509-0012	1	*Seal, Crankshaft Oil - Front
15	150-0098	1	Spring, Governor
16	150-0213	1	Stud, Governor Spring Tension Adjustment
	NUT, GOVERNOR ADJUSTING		
17	870-0131	1	Key 1,2,3,4,8,9,10 (WET 10-32)
18	150-0033	1	Key 5,6,7 - Special
19	150-0198	1	Cover, Governor Spring - Specs A Through G

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
20	103-0013	1	Gasket, Gear Cover
21	LINK, GOVERNOR ARM TO CARBURETOR		
	150-0578	1	Spec A through G
	150-0786	1	Begin Spec H
22	518-0004	1	Cip, Governor Link to Carburetor
23	150-0974	1	Joint, Ball
24	870-0053	1	Nut, Hex (10-32)
25	870-0131	1	Nut, Lock (10-32)
26	SCREW, CAP-HEX HEAD-GEARCOVER MOUNTING		
	800-0031	2	5/16-18 x 1-1/2" lg
	800-0034	2	5/16-18 x 2-1/4" lg
27	850-0045	4	Washer, Lock - Spring - Gearcover Mounting (5/16")
28	815-0391	1	Screw, Hex Head - Slotted (10-32 x 1/2")

* - Parts Included in Gear Cover Assembly.

FUEL SYSTEM (GASOLINE)



FUEL SYSTEM (GASOLINE)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	△ CARBURETOR KIT (Includes Mounting Gasket, Spacer and Flange)			31	159-0728	1	Key 3,10
	146-0296	1	Key 1,3 & 5 thru 10 Manual Choke	32	159-0727	1	Key 1,8,9
	146-0297	1	Key 2,4 Electric Choke	33			Fuel Pump to Carburetor
					149-0561	1	Spec A through K
					149-1110	1	Begin Spec L
	CLEANER, AIR			34			Sets WITH Separate Fuel Tank (Not Mounted)
2	140-0369	1	Dry Type, Complete - Prior to Serial #566319		149-0588	1	Filter Bracket to Carburetor - Key 2,7
3	140-0441	1	Oil Bath Type (Begin Serial #566319) (Includes Parts Marked *) - Optional Prior to Serial Cut-off	35			Fuel Pump to Carburetor - Key 4
4	145-0111	1	Gasket, Air Cleaner Adapter to Carburetor		149-0561	1	Spec A through K
5	145-0110	1	Spacer, Carburetor		149-1110	1	Begin Spec L
6	141-0078	1	Gasket, Carburetor	36	ELBOW, INVERTED		
7	145-0469	1	Flange, Carburetor		502-0002	1	Filter Inlet
8	149-0079	1	Filter, Fuel (Includes Parts Marked †)		502-0002	1	Carburetor Inlet - Sets WITH Separate Fuel Tank
9	149-0693	1	Pump, Fuel (See Separate Group for Components)		502-0002	1	Sets WITH Tank Mounted Over Generator WITH Fuel Pump
10	149-0003	1	Gasket, Fuel Pump Mounting		502-0002	1	Filter Inlet - Spec A thru D
11	149-0150	1	† Bowl, Fuel Filter		502-0002	1	Tank Outlet - Begin Spec H
12	149-0149	1	† Gasket, Fuel Filter Bowl		502-0002	1	Sets WITH Tank Mounted Over Generator WITHOUT Fuel Pump
13	149-0202	1	† Screen, Fuel Filter		502-0002	1	Filter Inlet - Spec A Only
14	140-0446	1	Adapter, Oil Bath (Begin Serial #566319)	37	502-0065	1	Carburetor Inlet
15	140-0443	1	Gasket, Oil Bath to Adapter (Begin Serial #566319)				Elbow, Inverted (45°) - Filter Outlet - Sets WITH Tank Mounted Over Generator - Spec B thru D (Also Begin Spec H, Key 6)
16	520-0538	1	Stud, Air Cleaner to Adapter (Begin Serial #566319)	38	502-0020	1	Elbow, Street (1/8" Pipe) - Filter Inlet - Sets with Separate Fuel Tank
17	140-0469	1	* Cup, Oil Bath - Plastic (Begin Serial #566319) - Includes Gasket	39	CONNECTOR, INVERTED - 1/4" TUBE x 1/8" PIPE (Sets With Tank Mounted Over Generator)		
18	509-0135	1	* Seal, "O" Ring - Oil Bath Air Cleaner		502-0003	1	Models WITHOUT Fuel Pump
19	140-0587	1	Knob, Plastic - Oil Bath Air Cleaner Mounting (Begin Serial #566319)		502-0003	1	Tank Outlet - Spec A Only
20	505-0001	1	Cap, Pipe (1/8") - Air Cleaner Adapter - Key 6,7 (24 Volt Output) - Begin Serial #708811		502-0003	1	Filter Outlet - Spec E thru G
21	149-0254	1	Bracket and Elbow - Filter Mounting - Sets with Fuel Tank Mounted over Generator (Also Sets with Separate Tanks) (Key 2,7)		502-0003	2	Models WITH Fuel Pump
22	149-0136	1	Cover, Fuel Pump Hole		502-0003	1	Fuel Pump Outlet or Carburetor Inlet
23	159-0504	1	Tank to Filter - Sets WITH Tank Mounted on Side of Engine - Sets WITH Tank Mounted Over Generator WITHOUT Fuel Pump		502-0003	1	Tank Outlet - Spec A thru D
24	149-0588	1	Spec A Only		502-0003	1	Filter Outlet, Spec E thru G
25	159-0538	1	Spec B thru , Filter to Carburetor		502-0003	1	Filter Inlet, Key 1,3,8,9,10 - Begin Spec H
26	159-0633	1	Spec E thru G, Filter to Carburetor	40	502-0082	1	Nipple, Filter Mounting
27	159-0538	1	Spec H thru K, Filter to Carburetor, Key 6	41	STUD, CARBURETOR MOUNTING		
28	149-1129	1	Begin Spec L		520-0363	2	Spec A thru K (1-9/16" lg)
			Sets WITH Tank Mounted Over Generator WITH Fuel Pump		520-0632	2	Begin Spec L (1-1/2" lg)
29	159-0504	1	Spec A thru D, Tank to Filter	42	812-0082	2	Screw, Machine - Round Head - Adapter Mounting (#8-32 x 3/4" lg)
30	159-0637	1	Spec E thru G, Filter to Pump	43	850-0025	2	Washer, Lock - Spring - Adapter Mounting (#8)
			Begin Spec H, Tank to Filter	44	868-0001	2	Nut, Hex - Carburetor Mounting (1/4-28)
				45	853-0013	2	Washer, Lock (External Shakeproof) (1/4")
				46	815-0111	2	Screw, Cap - Fillister Head - Fuel Pump Mounting (1/4-20 x 5/8" lg)
				47	526-0063	2	Washer, Flat (Copper) - Fuel Pump Mounting (17/64" ID x 7/16" OD x 1/32" Thk)

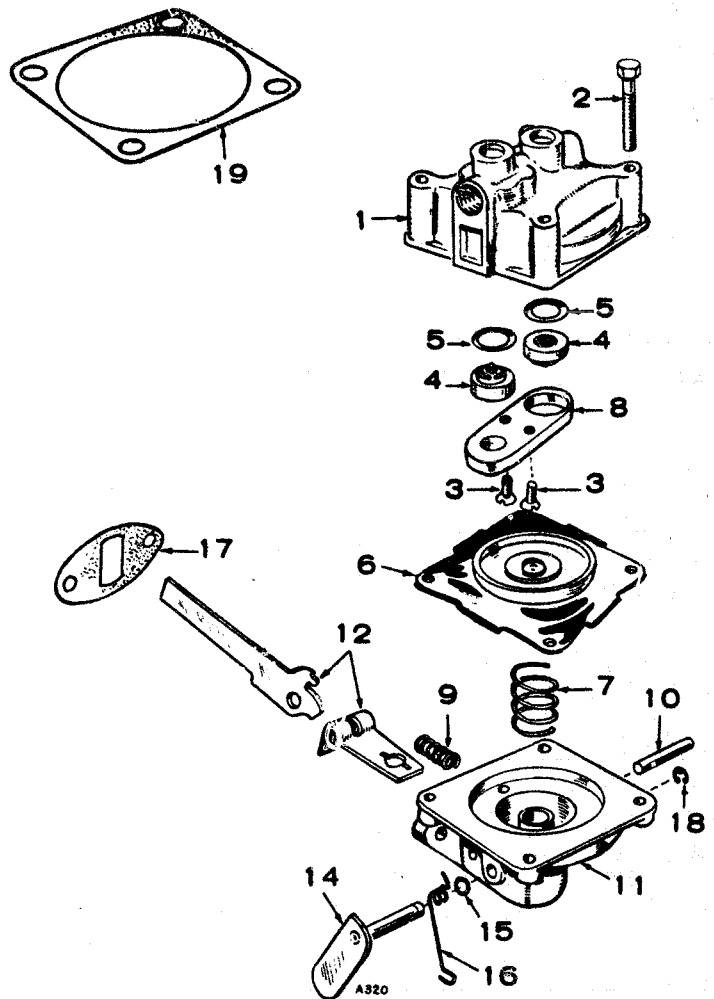
* - Parts Included in 140-0441 Oil Bath Air Cleaner Assembly.
† - Parts Included in 149-0079 Fuel Filter Assembly.
△ - The Above Replacement Carburetors Apply to All Specs. To Order Component Parts for Original Carburetor Refer to Carburetor Parts Group by Spec Letter.

FUEL PUMP PARTS

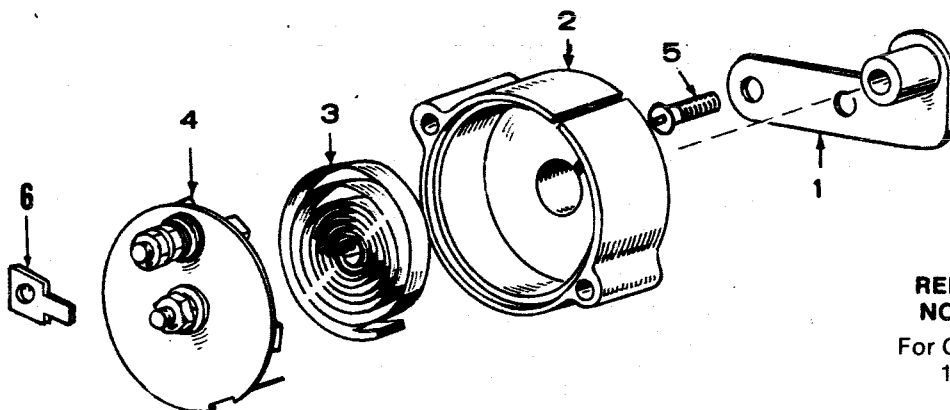
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	149-0693	1	Pump, Fuel (illustrated in Fuel System Group) (Includes Mounting Gasket)
	149-0526	1	Repair Parts Kit (Includes Parts Marked *)
1		1	Body, Not Sold Separately
2	815-0148	4	Screw, Hex Head - Slotted (8-32 x 7/8")
3	815-0147	2	Screw, Phillips Self Tapping, (#6-32 x 5/8") - Valve Retainer
4	149-0096	2	*Valve and Cage
5	149-0095	2	*Gasket, Valve
6	149-0582	1	*Diaphragm Assembly
7	149-0672	1	*Spring
8	149-0539	1	Retainer, Valve Cage
9	149-0675	1	*Spring
10	516-0113	1	Pin, Rocker Arm
11		1	Body, Not Sold Separately
12	149-0710	1	Link and Arm, Rocker (Only as a set)
14	149-0551	1	Lever, Primer
15	509-0065	2	Seal, "O" Ring
16	149-0404	1	Spring, Primer Lever
17	149-0003	1	*Gasket, Pump Mounting
18	518-0129	1	Ring, Retainer - Primer Lever
19	149-0858	1	†Gasket, Diaphragm - Lower Side

* - Parts Included in 149-0526 Repair Kit.

† - Used on some models to prevent air lock.

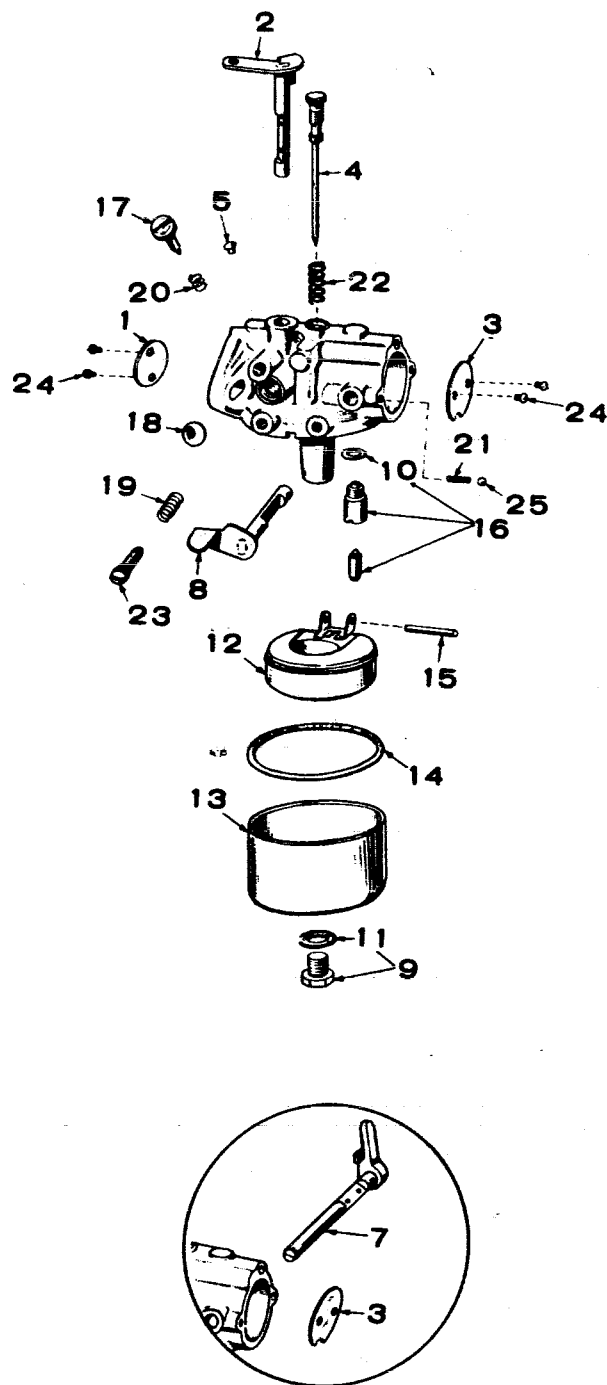


ELECTRIC CHOKE



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
For Gasoline Fuel Sets with Key 2 and 4.			
1	ADAPTER, CHOKE TO CARBURETOR		
	153-0196	1	Spec A through K
	153-0420	1	Begin Spec L
2	153-0440	1	Bracket, Housing
3	153-0017	1	Element, Bimetal
4	COVER ASSEMBLY, INCLUDES ELEMENT		
	153-0124	1	12 Volt
	153-0114	1	24 Volt
5	815-0190	2	Screw, Round Head - Adapter Mounting (8-32 x 3/8")
6	332-0527	1	Terminal, Wire

CARBURETOR PARTS (GASOLINE, GAS AND GAS/GASOLINE) - SPEC A THROUGH K



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
NOTE: For complete carburetor replacement refer to the Fuel System Group, Gasoline or Optional Gaseous Fuel.			
CARBURETOR KIT (GASOLINE) (Includes Mounting Gasket)			
	146-0296	1	Key 1,3 & 5 thru 10 (Manual Choke)
	146-0297	1	Key 2,4 (Electric Choke, 1/2" Venturi)
CARBURETOR KIT (GAS-GASOLINE) (Includes Mounting Gasket)			
	146-0298	1	Key 1,3, & 5 thru 10 (Manual Choke)
	146-0295	1	Carburetor Kit (Gas Only)
	143-0081	1	Repair Kit, Carburetor (Includes Parts Marked **)
	143-0080	1	**Gasket Kit, Carburetor (Includes Parts Marked*)
	145-0110	1	*Gasket, Spacing, Carburetor Flange (illustrated in Fuel System Group)
1	143-0097	1	Valve, Throttle
2	143-0098	1	Shaft & Lever, Throttle
3	VALVE, CHOKE		
	143-0099	1	Key 2,4 (Electric Choke)
	143-0267	1	Key 1,3, & 5 thru 10 (Manual Choke)
4	143-0078	1	**Needle, Idle Jet & High Speed
5	143-0030	1	Plug, Idle Passage
7	143-0100	1	Shaft & Weight, Choke, Key 2,4
8	143-0101	1	Shaft & Lever, Choke - Key 1,3 & 5 thru 10
9	143-0118	1	Screw & Gasket, Bowl
10	143-0015	1	*Gasket, Fuel Inlet Valve
11	143-0036	1	*Gasket, Bowl Screw
12	143-0105	1	Float
13	143-0119	1	Bowl
14	143-0077	1	*Gasket, Bowl Ring
15	141-0703	1	Axle, Float
16	143-0341	1	**Valve, Fuel Inlet
17	143-0109	1	Screw, Idle Adjustment
18	143-0110	1	Plug, Welch
19	143-0111	1	Spring, Throttle Lever Adjustment Screw
20	143-0112	1	Spring, Idle Adjustment Screw
21	143-0113	1	Spring, Choke Shaft - Key 1, 3 & 5 thru 10
22	143-0114	1	Spring, High Speed Adjustment Needle
23	143-0115	1	Screw, Throttle Lever Adjustment
24	812-0014	4	**Screw (3-48 x 3/16) Choke & Throttle Valve Attaching
25	510-0083	1	Ball, Choke Shaft Key 1,3 & 5 thru 10

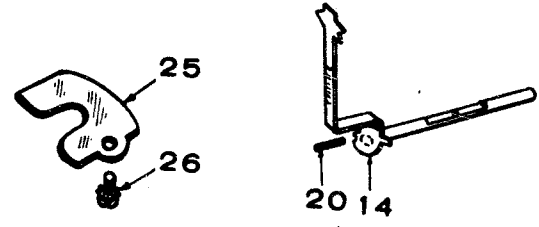
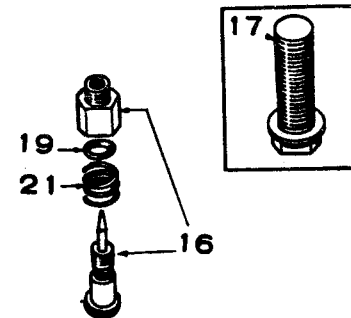
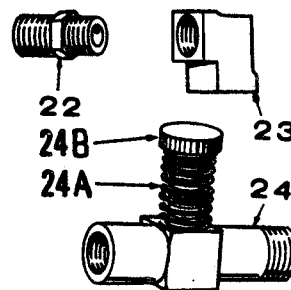
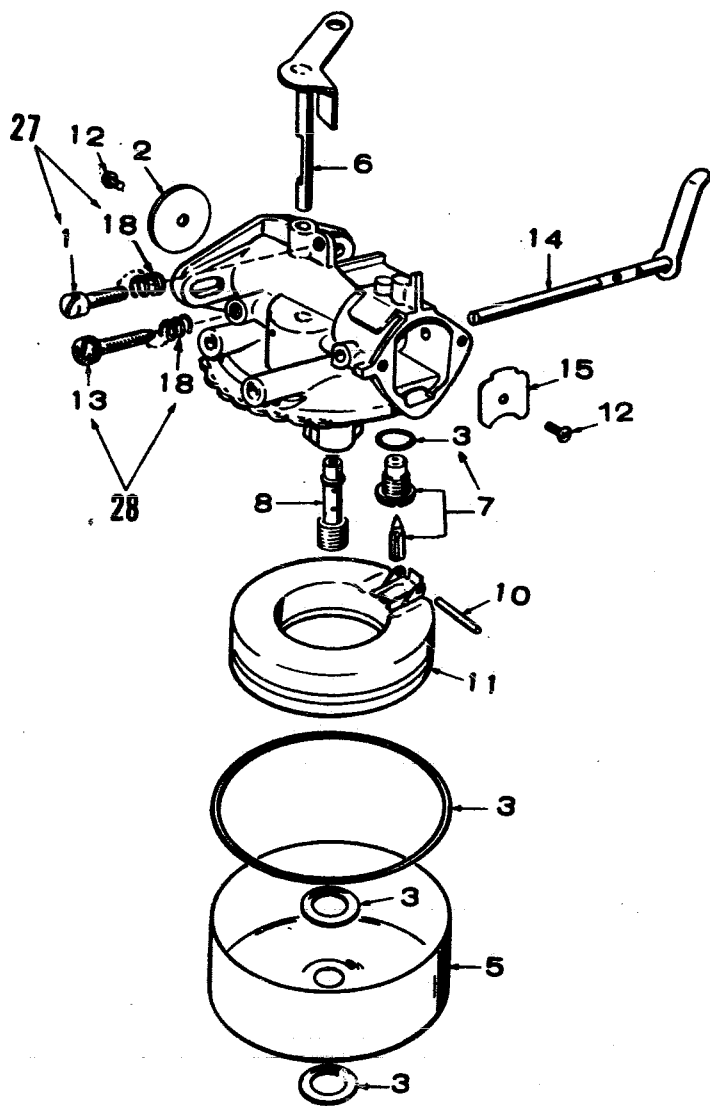
* - Parts Included in 143-0080 Gasket Kit.

** - Parts Included in 143-0081 Repair Kit.

NOTE: See Separate Group for Carburetor Parts Begin Spec L.

CARBURETOR PARTS (GAS AND GASOLINE) **- BEGIN SPEC L**

NOTE: See separate group for Carburetor Parts
Spec A through K.



CARBURETOR PARTS (GAS AND GASOLINE)

- BEGIN SPEC L

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
NOTE: For complete carburetor replacement refer to the Fuel System Group, Gasoline or Optional Gaseous Fuel.			
CARBURETOR, GASOLINE (Includes Mounting Gasket)			
	146-0092	1	Key 1,3, & 5 thru 10 (Manual Choke)
	146-0093	1	Key 2,4 (Electric Choke)
	146-0305	1	Key 2,4 (Electric Choke) - Rough Service
	146-0127	1	Carburetor, Gas Only
	146-0123	1	Repair Kit, Carburetor
			NOTE: This Kit does not apply to Gas Carburetor & Rough Service Carburetor (Includes Parts Marked *)
1	146-0122	1	**Screw, Throttle Stop
2	146-0119	1	Valve, Throttle
3	146-0124	1	*Gasket Kit, Carburetor
5	146-0118	1	Bowl, Fuel
6	146-0112	1	Shaft Assembly, Throttle
7	146-0115	1	*Float Valve, Seat & Gasket Assembly (Gasoline Carburetor) Not used on Rough Service Carburetors
7	146-0145	1	Float Valve, Seat, Spring & Gasket Assembly - For Rough Service Carburetors
8	146-0113	1	Nozzle (Gasoline Carburetors)
10	146-0111	1	*Shaft, Float (Gasoline Carburetors)
11	146-0110	1	Float Assembly (Gasoline Carburetors)
12	146-0109	2	Screw & Washer (One only for Gas Carburetors)
13	146-0116	1	£Needle, Idle (Gasoline Carburetors)
14	SHAFT ASSEMBLY, CHOKE (Gasoline Carburetors)		
	146-0108	1	Key 1,3 & 5 thru 10
	146-0107	1	Key 2,4 (Gasoline Carburetor)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
15	VALVE, CHOKE (Gasoline Carburetors)		
	146-0105	1	Key 1,3 & 5 thru 10
	146-0104	1	Key 2,4
16	146-0102	1	*Needle Assembly, Power (Gasoline Carburetor)
17	146-0103	1	Screw, Bowl Retainer (Gas Carburetor)
18	146-0186	2	£**Spring, Throttle Stop Screw and Idle Screw
19	146-0120	1	Seal, "O" Ring - High Speed Needle (Gasoline Carburetor)
20	146-0114	1	Spring, Choke Stop (Gasoline Carburetors with Manual Choke)
21	146-0117	1	Spring, High Speed Needle (Gasoline Carburetor)
22	502-0082	1	Nipple, Gas (Gas or Gas-Gasoline)
23	502-0055	1	Elbow, Gas (Gas or Gas-Gasoline)
24	148-0178	1	Adjustment Assembly, Gas (Includes Parts Marked ++)
24A	148-0010	1	++Spring, Gas Assembly
24B	148-0131	1	++Screw, Gas Assembly
25	146-0143	1	Baffle, Splash - Rough Service Carburetor
26	146-0142	1	Screw & Washer, Splash Baffle - Rough Service Carburetor
27	146-0261	1	Screw Assembly Throttle Adjust (Package) (Includes Parts Marked **)
28	146-0209	1	Needle Assembly Idle Adjust (Package) (Includes Parts Marked £)

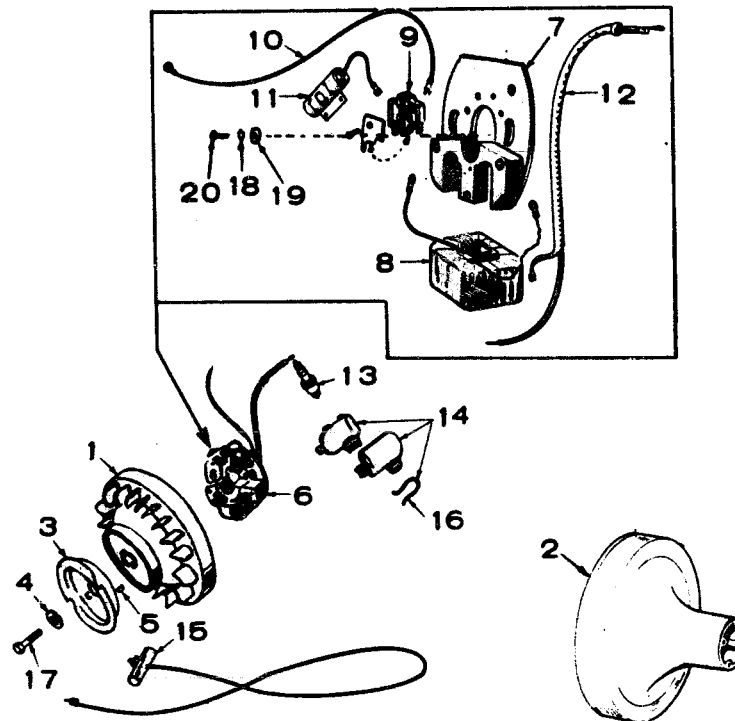
* - Parts Included in 146-0123 Repair Kit.

++ - Parts Included in 148-0178 Gas Adjustment Assembly.

** - Parts Included in 146-0261 Screw Assembly (Package).

£ - Parts Included in 146-0209 Needle Assembly (Package).

IGNITION SYSTEM (MAGNETO)

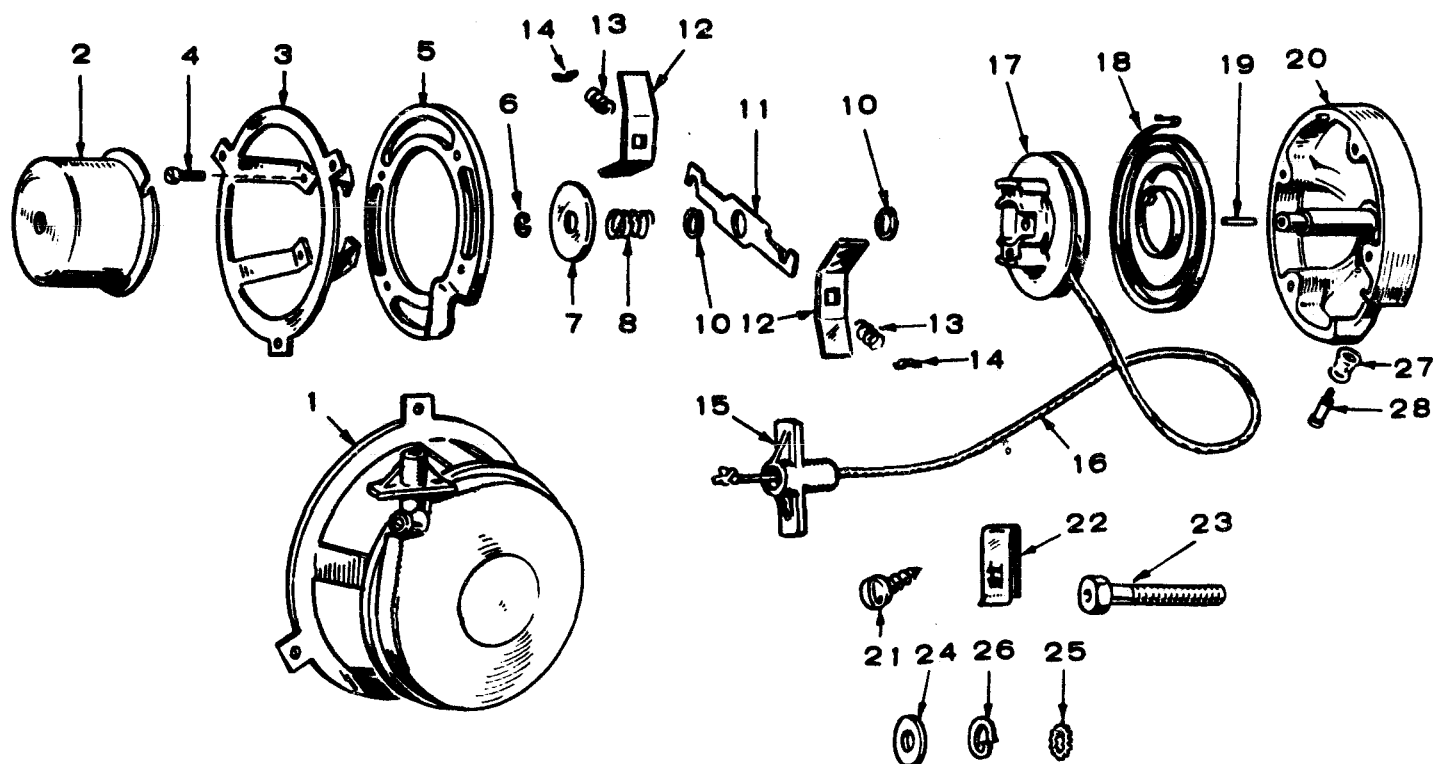


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	FLYWHEEL, MAGNETO (Pressure Cooled Sets)		
	160-0460	1	Key 8,9
	160-0459	1	Key 1 thru 7 & 10
2	FLYWHEEL (Vacu-Flo Cooled Sets)		
			Key 1 through 7
	160-0470	1	Spec A through G
	160-0672	1	Begin Spec H
			Key 8,9 (Also Key 7-24 Volt)
	160-0466	1	Spec A through G
	160-0729	1	Begin Spec H
3	192-0261	1	Sheave
4	526-0141	1	Washer, Flywheel
5	515-0113	1	Key, Flywheel
6	160-0487	1	Backplate Assembly, Magneto - (Includes Parts Marked *)
7	160-0454	1	*Backplate and Poleshoe
8	160-0155	1	*Coil
9	167-1272	1	*Cable, Spark Plug
10	160-0540	1	*Point Set
	*LEAD, STOP		
	334-0028	1	Key 1,3,8,9,10 (4 Ft. Wire)
	336-0345	1	Key 2,4,5,6,7

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
11	312-0033	1	*Condenser
12	167-1272	1	*Lead, Spark Plug
13	167-0241	1	Plug, Spark
14	167-0067	1	Shield & Clamp, Spark Plug
15	192-0023	1	Rope & Handle, Manual Start
16	167-0064	1	Clamp, Spark Plug Shield
17	104-0237	1	Screw, Flywheel Mounting
18	WASHER, LOCK-SPRING		
	850-0055	1	Flywheel Mounting (7/16")
	850-0040	2	Magneto Backplate Mounting (1/4")
19	526-0214	2	Washer, Flat - Magneto Backplate Mounting (17/64" ID x 1/2" OD x 1/16" Thk)
20	815-0290	2	Screw, Hex Washer Head - Magneto Backplate Mounting (1/4-20 x 5/8" Lg)

* - Parts Included in 160-0487 Magneto Backplate Assembly.

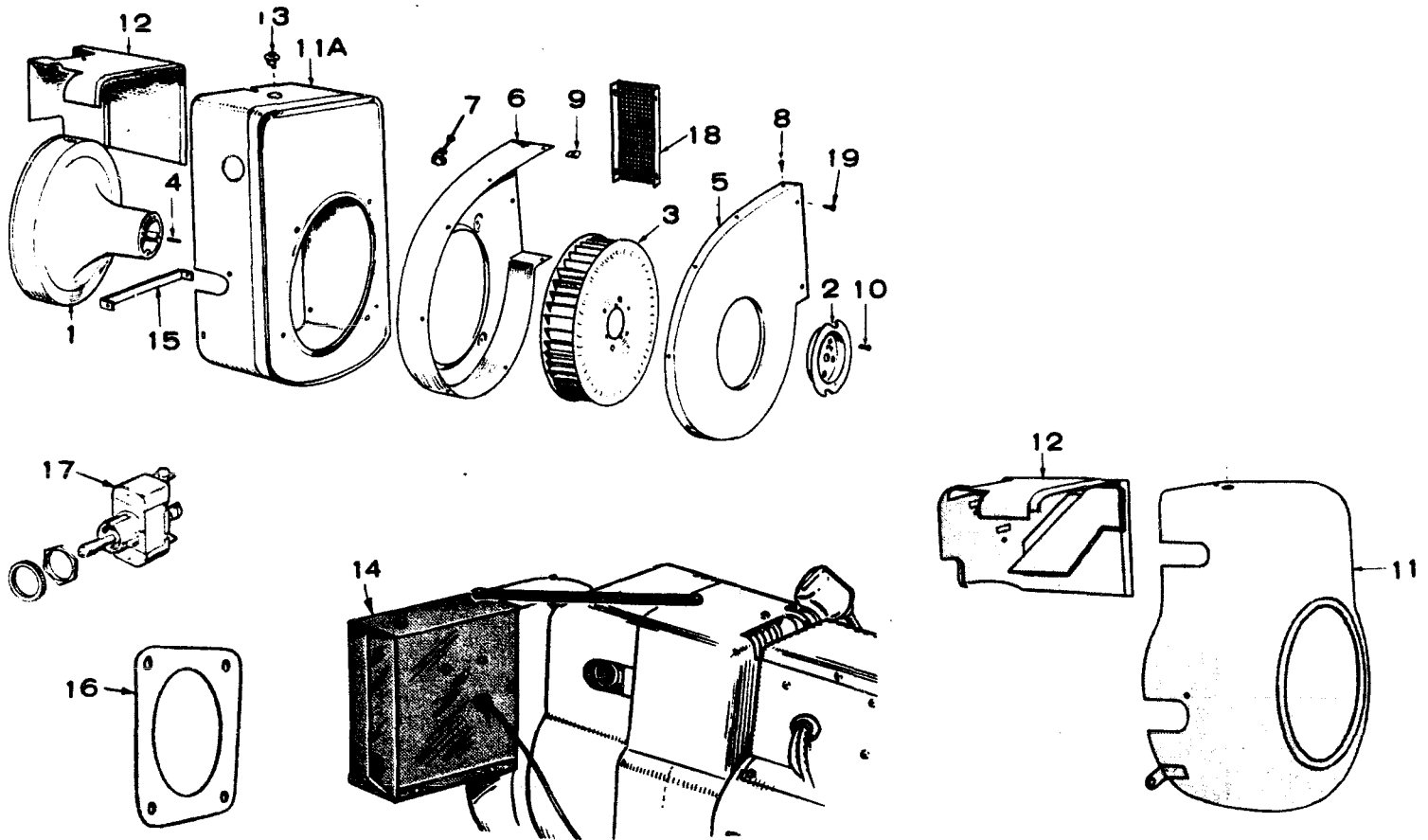
READI-PULL STARTER (Starter for pressure cooled sets only)



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	STARTER KIT (Complete) - INCLUDES CUP AND MOUNTING RING		
	192-0270	1	Spec A through F
	192-0343	1	Begin Spec G
2	192-0273	1	Cup, Starter Engaging
3	RING, ADAPTER-STARTER TO ENGINE HOUSING		
	192-0269	1	Spec A through F
	192-0341	1	Begin Spec G
4	815-0191	4	Screw, Machine (Self-Tapping) (10-24 x 3/4")
5	192-0274	1	Flange, Middle
6	518-0205	1	Ring, Retainer
7	526-0142	1	Washer, Flat - Brake Retainer (1/4 ID x 1-1/2 OD x 1/16" Thk)
8	192-0275	1	Spring, Brake
10	192-0279	2	Washer, Friction
11	192-0277	1	Lever, Brake
12	192-0278	2	Plate, Friction Shoe
13	192-0280	2	Spring, Friction Shoe
14	192-0281	2	Plate, Spring Retainer
15	192-0282	1	Handle (Includes Washer)
16	192-0283	1	Cord Only, Rewind Starter

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
17	192-0284	1	Rotor (Rope Sheave)
18	192-0285	1	Spring, Rewind
19	192-0287	1	Pin, Centering
20	192-0286	1	Cover, Starter
21	809-0044	3	Screw, Sheet Metal (10-32 x 1/2") - Spec A through F
21	815-0179	4	Screw, Round Head (#10-32 x 3/8") - Begin Spec G
22	870-0119	3	Nut, (U-Type) - Spec A through F (#10)
23	104-0237	1	Screw, Cup Mounting (With Pilot)
24	526-0141	1	Washer, Flat - Cup Mounting (15/32 ID x 1-1/4 OD x 1/8" Thk)
25	856-0003	4	Washer, Lock - EIT - Starter Ring to Engine Housing - Qty of 3 used - Spec A thru F (#10)
26	850-0055	1	Washer, Lock - Cup Mounting (7/16")
27	192-0339	1	Roller, Rope
28	192-0340	1	Screw, Roller

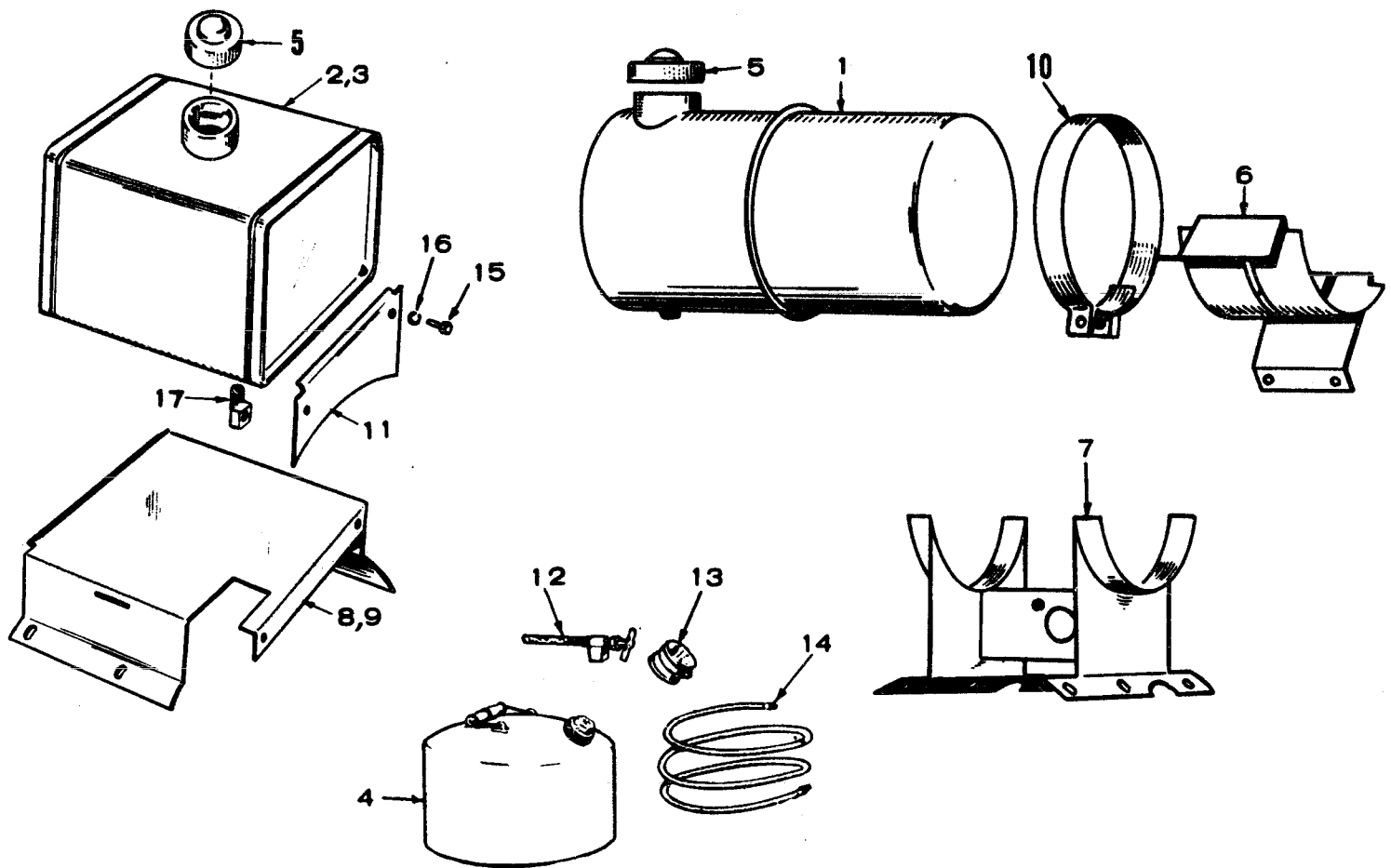
AIR HOUSING AND OPTIONAL VACU-FLO COOLING



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	FLYWHEEL, MAGNETO, VACU-FLO SETS		
			Key 1 through 7
	160-0470	1	Spec A through G
	160-0672	1	Begin Spec H
			Key 8,9
	160-0466	1	Spec A through G
	160-0729	1	Begin Spec H
2	192-0261	1	Sheave, Rope
3	134-0563	1	Wheel, Blower (Vacu-Flo Sets)
4	516-0091	2	Pin, Groove, Sheave & Blower Wheel-to-Flywheel (Vacu-Flo Sets)
5	134-0570	1	Scroll, Air, Front (Vacu-Flo Sets)
6	SCROLL, AIR-REAR (Vacu-Flo Sets)		
	134-0571	1	Spec A through G
	134-1015	1	Begin Spec H
7	NUT, SPEED, U-TYPE, SCROLL-TO-BLOWER HOUSING (Vacu-Flo Sets)		
	870-0119	3	Spec A through G - U-Type (#10)
	870-0126	3	Begin Spec H (#10)
8	809-0043	11	Screw, Sheet Metal (#10 x 3/8") - Scroll (Vacu-Flo Sets)
9	870-0120	8	Nut, Speed, J-Type Scroll (Vacu-Flo Sets) (#10)
10	812-0150	2	Screw, Round Head (1/4-20 x 5/8") - Sheave & Blower (Vacu-Flo Sets)
	HOUSING, BLOWER		
			Spec A through G
11	134-0519	1	Pressure Cooled
	134-0609	1	Vacu-Flo Cooled

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
11A	134-1016	1	Begin Spec H
	134-1101	1	Pressure Cooled
12	SHROUD, CYLINDER AIR		
			Spec A through F
	134-0518	1	Key 3 thru 10
	134-0549	1	Key 1,2
			Begin Spec G
	134-1534	1	Key 3,4,6,7,8,9,10
	134-1042	1	Key 1,2
13	313-0018	1	Button, Stop, Key 1,3,8,9,10
14	134-0955	1	Shutter Kit, Air Discharge (Automatic) OPTIONAL ACCESSORY for all Unhoused (Vacu-Flo Sets) & Housed Beginning 2/1/59
15	134-1014	1	Bracket, Blower - Housing Mounting - Begin Spec H
16	134-1438	1	Plate, Air Restriction, Key 3, 24 Volt Output (PortaCharge Models)
	405-1058	1	Anti-Vibration Kit (Canvas Section to fit 3-1/4 x 10" Ducts) - Vacu-Flo Sets Only
17	308-0097	1	Switch, Momentary - Low Oil Pressure Switch - Optional
18	134-3080	1	Guard, Outlet
19	815-0424	4	Screw, Sheet Metal - Hex Head - Outlet Guard Mounting (#10-16 x 1/2" Lg)

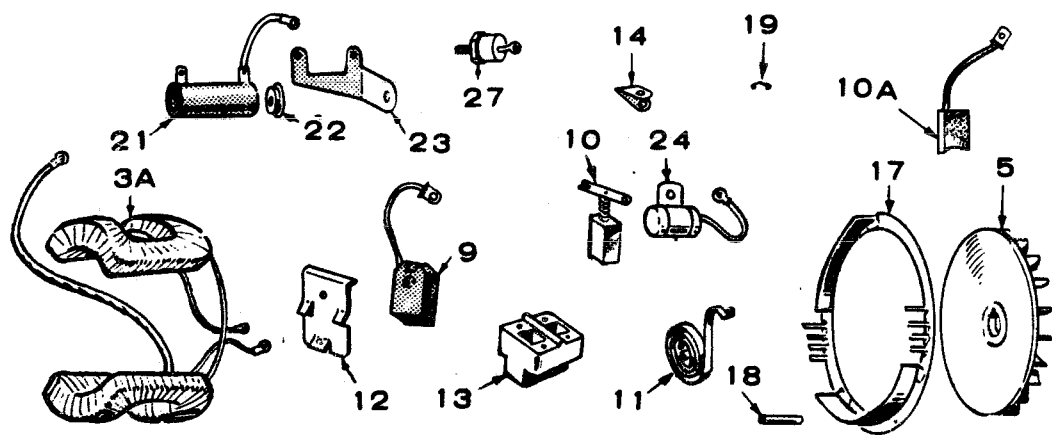
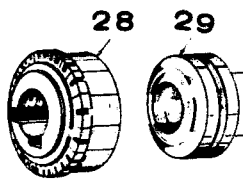
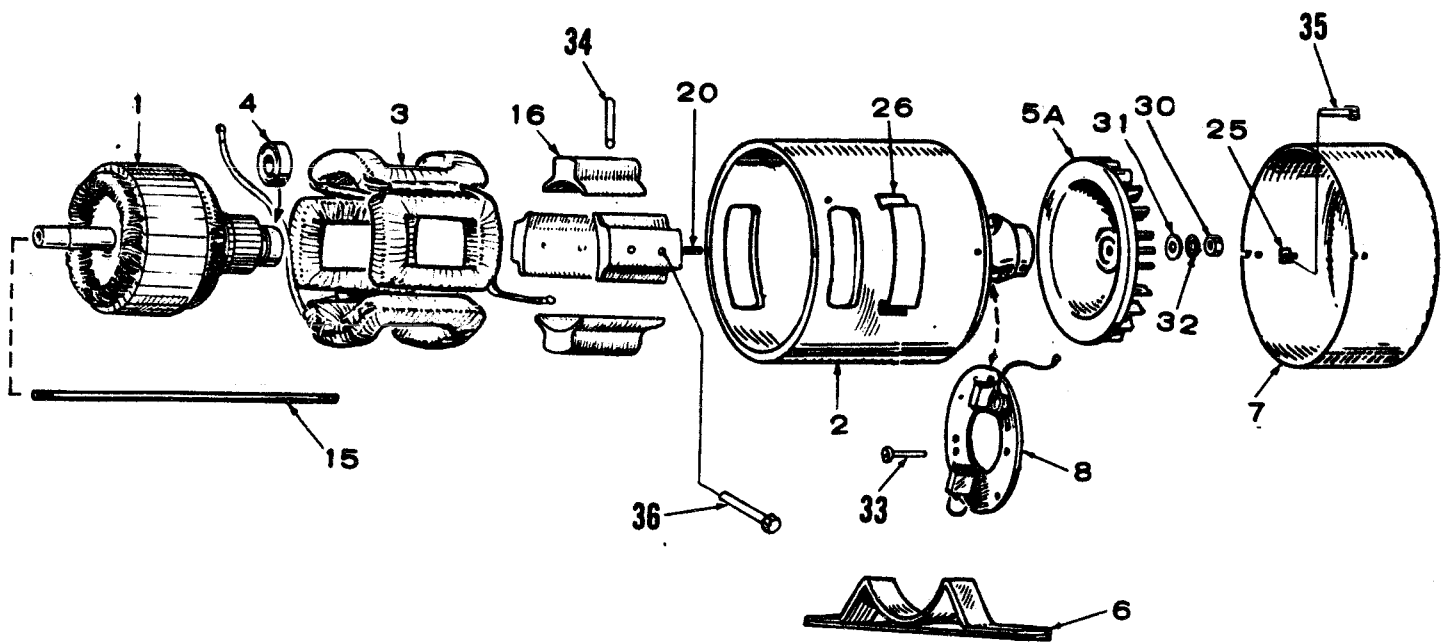
FUEL TANK



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
TANK, FUEL			
1	159-0488	1	Round Type (1.4 Gal.) - Key 6 (Also Key 1,3,5,8,9,10 - Spec A through G)
2	159-0234	1	Square Type (2 Gal.) - Key 3,10 - Begin Spec H
3	159-0722	1	Square Type (1.3 Gal.) - Key 1,8,9 - Begin Spec H
4	415-0126	1	Separate (5 Gal.) - Optional
5	159-0007	1	Cap, Fuel Tank
BRACKET, TANK MOUNTING			
6	159-0486	1	Key 5 (Also Key 1,3,8,9,10 - Spec A through D)
7	159-0623	1	Key 1,3,8,9,10 - Spec F through G
8	159-0717	1	Key 3,10 - Begin Spec H
9	159-0721	1	Key 1,8,9 - Begin Spec H
10	159-0154	2	Band, Tank Mounting
11	159-0718	1	Bracket, Hold-down - Key 1,3,8,9,10 - Begin Spec H

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
12	504-0013	1	Valve, Shut-off, With Strainer Mounts in 1/8" Pipe Thread Bottom Tank Outlet
13	415-0124	1	Cap, Rubber (Provision for Inserting Fuel Line) - Optional
14	501-0007	1	Line, Fuel - 24" - Optional
14	501-0027	1	Line, Flexible, Tank to Filter, 48" - Optional
15	800-0005	2	Screw, Cap - Hex Head - (1/4-20 x 3/4" lg) - Gas Tank Mounting - Key 1,8,9 - Begin Spec H
16	850-0040	2	Washer, Lock - Spring (1/4") - Gas Tank Mounting - Key 1,8,9 - Begin Spec H
17	502-0002	1	Elbow, Tank Outlet

GENERATOR



GENERATOR

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	ARMATURE			2	FRAME, MACHINED & DRILLED (Less Coil and Poleshoes)		
			Key 1 - 120 Volt				Key 1 - 120 Volt
	201-0796	1	Spec A thru F		210-0254	1	Spec A thru F
	201-1081	1	Begin Spec H		210-0332	1	Begin Spec H
			Key 1 - 240 Volt				Key 1 - 240 Volt
	201-0722	1	Spec A		210-0231	1	Spec A
	201-0797	1	Spec B thru F		210-0254	1	Spec B thru E
	201-1081	1	Begin Spec H		210-0282	1	Spec F
			Key 2 - 120 Volt		210-0332	1	Begin Spec H
	201-0687	1	Spec A				Key 2 - 120 Volt
	201-0797	1	Spec B thru F		210-0231	1	Spec A
	201-1081	1	Begin Spec H		210-0254	1	Spec B thru E
			Key 2 - 240 Volt		210-0282	1	Spec F
	201-0722	1	Spec A		210-0332	1	Begin Spec H
	201-0796	1	Spec B thru F				Key 2 - 240 Volt
	201-1081	1	Begin Spec H		210-0231	1	Spec A
			Key 3 - 120 Volt		210-0254	1	Spec B thru E
	201-0677	1	Spec A thru E		210-0282	1	Spec F
	201-1072	1	Begin Spec H		210-0332	1	Begin Spec H
			Key 3 - 240 Volt				Key 3 - 120 Volt
	201-0721	1	Spec A thru F		210-1449	1	Spec A thru E
	201-1073	1	Begin Spec H		210-1593	1	Spec F
			Key 4 - 120 Volt		210-1739	1	Begin Spec H
	201-0677	1	Spec A thru F				Key 3 - 240 Volt
	201-1072	1	Begin Spec H		210-1449	1	Spec A thru E
			Key 4 - 240 Volt		210-1593	1	Spec F
	201-0721	1	Spec A thru F		210-1739	1	Begin Spec H
	201-1073	1	Begin Spec H				Key 4 - 120 Volt
			Key 5 - 6 Volt Battery Charger		210-1449	1	Spec A thru E
	201-0698	1	Begin Spec A		210-1593	1	Spec F
			Key 6 - 12 Volt Battery Charger		210-1739	1	Begin Spec H
	201-0794	1	Begin Spec A				Key 4 - 240 Volt
			Key 6 - 24 Volt Battery Charger		210-1449	1	Spec A thru E
	201-0841	1	Begin Spec A		210-1593	1	Spec F
			Key 7 - 24 Volt Battery Charger		210-1739	1	Begin Spec H
	201-0841	1	Spec H				Key 5 - 6 Volt - Battery Charger
	201-1188	1	Begin Spec J		210-0232	1	Begin Spec A
			Key 7 - 32 Volt Battery Charger		210-0332	1	Begin Spec A
	201-0692	1	Spec A				Key 6 - 12 Volt - Battery Charger
	201-0793	1	Begin Spec B		210-0254	1	Spec A thru E
			Key 8 - 120 Volt, 50 Hertz		210-0282	1	Spec F
	201-0801	1	Spec A thru H		210-0332	1	Begin Spec H
	201-1339	1	Begin Spec J				Key 7 - 24 Volt - Battery Charger
			Key 8 - 240 Volt, 50 Hertz		210-0332	1	Begin Spec A
	201-0822	1	Spec A thru H				Key 7 - 32 Volt - Battery Charger
	201-1340	1	Begin Spec J		210-0231	1	Spec A
			Key 8 - 120 Volt, 60 Hertz		210-0254	1	Spec B thru E
	201-0765	1	Spec A thru H		210-0282	1	Spec F
	201-1341	1	Begin Spec J		210-0332	1	Begin Spec H
			Key 8 - 240 Volt, 60 Hertz				Key 8 - 120 Volt, 50 Hertz
	201-0776	1	Spec A thru H		210-1496	1	Spec A thru B
	201-1342	1	Begin Spec J		210-1501	1	Spec C thru E
			Key 9 - 120 Volt, 50 Hertz		210-1563	1	Spec F thru G
	201-0801	1	Spec A thru H		210-1715	1	Begin Spec H
	201-1339	1	Begin Spec J				Key 8 - 240 Volt, 50 Hertz
			Key 9 - 240 Volt, 50 Hertz		210-1496	1	Spec A thru B
	201-0801	1	Spec B		210-1501	1	Spec C thru E
	201-0822	1	Spec C thru H		210-1563	1	Spec F thru G
	201-1340	1	Begin Spec J		210-1715	1	Begin Spec H
			Key 9 - 120 Volt, 60 Hertz				Key 8 - 120 Volt, 60 Hertz
	201-0765	1	Spec A thru H		210-1496	1	Spec A thru B
	201-1341	1	Begin Spec J		210-1501	1	Spec C thru E
			Key 9 - 240 Volt, 60 Hertz		210-1563	1	Spec F thru G
	201-0776	1	Spec A thru H		210-1715	1	Begin Spec H
	201-1342	1	Begin Spec J				Key 8 - 240 Volt, 60 Hertz
			Key 10 - 115 Volt		210-1496	1	Spec A thru B
	201-0929	1	Spec F				
	201-1075	1	Spec H				

GENERATOR (Continued)

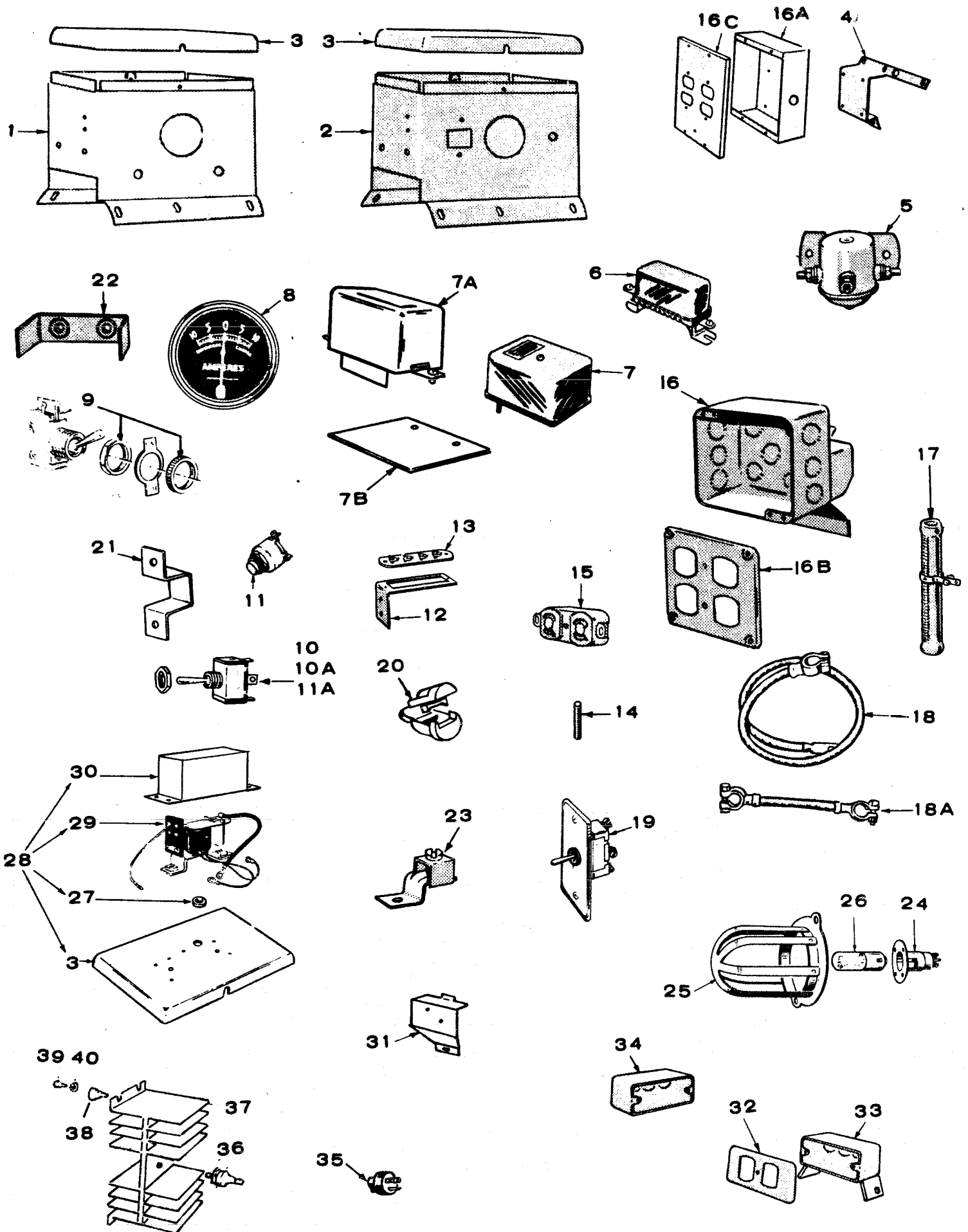
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	210-1501	1	Spec C thru E	7	COVER, GENERATOR END		
	210-1563	1	Spec F thru G				Spec A thru E
	210-1715	1	Begin Spec H	232-1214	1		Key 1 thru 5
			Key 9 - 120 Volt, 50 Hertz	232-1214	1		Key 6,7 - Spec A Only
	210-1496	1	Spec A thru B	234-0004	1		Key 6,7,8,9 - Spec B
	210-1501	1	Spec C thru E				thru E
	210-1563	1	Spec F thru G				Spec F and G
	210-1715	1	Begin Spec H	234-0041	1		Key 1 thru 5
			Key 9 - 240 Volt, 50 Hertz	234-0034	1		Key 6 thru 10
	210-1496	1	Spec A thru B				Begin Spec H
	210-1501	1	Spec C thru E	234-0125	1		Key 1,2
	210-1563	1	Spec F thru G	234-0127	1		Key 3,4,6,7,8,9,10
	210-1715	1	Begin Spec H	8	RIG ASSEMBLY, BRUSH - INCLUDES BRUSHES AND SPRINGS		
			Key 9 - 120 Volt, 60 Hertz				Key 1,2
	210-1496	1	Spec A thru B	212-0212	1		Spec A thru G
	210-1501	1	Spec C thru E	212-0265	1		Begin Spec H
	210-1563	1	Spec F thru G	212-0209	1		Key 3,4
	210-1715	1	Begin Spec H	212-0226	1		Key 5
			Key 9 - 240 Volt, 60 Hertz				Key 6,7
	210-1496	1	Spec A thru B	212-0214	1		Spec A Only
	210-1501	1	Spec C thru E	212-0228	1		Spec B thru E
	210-1563	1	Spec F thru G	212-0253	1		Begin Spec F
	210-1715	1	Begin Spec H				Key 8,9
			Key 10 - 115 Volt	212-0215	1		Spec A thru H
	210-1639	1	Spec F	212-0292	1		Begin Spec J - 120 Volt Sets
	210-1717	1	Spec H	212-0305	1		Begin Spec J - 240 Volt Sets
3	COIL SET (Set of 4 Coils Wired Together)			212-0245	1		Key 10
			Key 1	9	BRUSH, COMMUTATOR		
	222-1405	1	Spec A thru G	214-0041	4		Key 1 thru 4
	222-1578	1	Begin Spec H	214-0058	4		Key 5
			Key 2				Key 6,7
	222-1404	1	Spec A thru G	214-0012	4		Spec A Only
	222-1577	1	Begin Spec H	214-0044	4		Begin Spec B
			Key 3	214-0001	2		Key 8,9 - Spec A thru H
	222-1407	1	Spec A thru G	214-0039	4		Key 10
	222-1574	1	Begin Spec H	10	BRUSH, COLLECTOR RING		
			Key 4	214-0021	2		Key 1,2 (Includes Spring)
	222-1400	1	Spec A thru G	214-0059	4		Key 3,4,8,9 (Includes Spring)
	222-1573	1	Begin Spec H				Spec A thru H
	222-1415	1	Key 5 Only	10A	214-0072	2	Brush, Collector Ring -
			Key 6				Begin Spec J
	222-1408	1	12 Volt Sets				SPRING, COMMUTATOR BRUSH
	222-1476	1	24 Volt Sets	11	212-1003	4	Key 1,2,3,4 (NOTE: Key 8,9
			Key 7 - 24 Volt				Qty. is 2 - Spec A thru H)
	222-1476	1	Spec A thru H				Key 6,7
	222-1606	1	Begin Spec J	11	212-1003	4	Spec A Only
			Key 7 - 32 Volt	12	212-1105	4	Begin Spec B
	222-1410	1	Spec A Only	12	212-1106	4	Key 5
	222-1450	1	Begin Spec B	12	212-1105	2	Spring, Collector Ring Brush
			Key 10				Key 8,9 - Begin Spec J
	222-1525	1	Spec A thru G	13	BLOCK, GUIDE, COLLECTOR RING BRUSH		
	222-1583	1	Begin Spec H	212-1041	2		Key 1,2
3A	COIL SET (Set of 2 Coils Wired Together) KEY 8, 9			212-1064	2		Key 3,4
	222-1439	1	Spec A thru H	212-1064	2		Key 8,9 - Spec A thru H
	222-1625	1	120 Volt Sets - Begin Spec J	14	CLIP, RETAINER - COLLECTOR RING BRUSH		
	222-1635	1	240 Volt Sets - Begin Spec J	212-1042	1		Inner Brush
4	510-0047	1	Bearing, Ball, Armature -	212-1045	1		Outer Brush
			Key 3,4,5,8,9,10	15	STUD, ARMATURE THROUGH		
5	205-0047	1	Blower, Armature - Engine				Key 1,2
			End - Key 3,4,5 - Spec A thru G	520-0385	1		Spec A Only
5A	205-0056	1	Blower, Armature - Brush	520-0510	1		Begin Spec B
			Rig End - Key 8,9,10 (Also				Key 3,4
			Key 6,7 - Begin Spec B,	520-0274	1		Spec A thru G
			Key 3,4 - Begin Spec H)	520-0056	1		Begin Spec H
6	232-1282	1	Bracket, Generator Support -	520-0519	1		Key 5
			Key 9				

GENERATOR (Continued)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Key 6,7
	520-0512	1	Spec A Only
	520-0529	1	Spec B thru E
	520-0571	1	Begin Spec F
			Key 8,9
	520-0265	1	Spec A thru G
	520-0572	1	Begin Spec H
			Key 10
	520-0578	1	Spec A thru G
	520-0056	1	Begin Spec H
16	SHOE, POLE		
	221-0111	4	Key 1,2,5,6,7
	221-0110	4	Key 3,4
	221-0115	2	Key 8,9
	221-0125	4	Key 10
17	234-0007	1	Scroll, Generator Air - Key 3,4,5 - Spec A thru G
18	232-1197	2	Spacer, Scroll Mounting - Key 3,4,5 - Spec A thru G
19	232-0596	1	Clip, Armature Bearing Stop - Key 5
20	520-0363	2	Stud, Generator Frame to Engine
21	RESISTOR, FIXED - ANTI-FLICKER (Listed in Anti-Flicker Group Also)		
			Key 1,2
	304-0250	1	50 Hertz Sets - Spec A thru G
	304-0315	1	60 Hertz Sets - Spec A thru G
	304-0491	1	60 Hertz Sets - Begin Spec H
			Key 3,4
	304-0321	1	Spec A thru G
	304-0168	1	Begin Spec H
	304-0159	1	Key 10 - Spec A thru G
22	304-0014	2	Washer, Centering - Resistor Mounting - Key 3,4 (Also Key 10 - Spec A thru G)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
23	304-0304	1	Bracket, Resistor Mounting - Key 3,4 (Also Key 10-Spec A thru G)
24	312-0017	1	Condenser, Commutator Brush
24	312-0058	1	Condenser, Collector Ring - Spec A thru H
25	232-1557	2	Clip, End Bell Cover - Begin Spec H
26	234-0169	2	Cover, Air Outlet - Key 8,9
27	RECTIFIER-BEGIN SPEC J		
	305-0473	2	120 Volt Sets
	305-0474	2	240 Volt Sets
28	COMMUTATOR		
	203-0067	1	Key 1,2
	203-0059	1	Key 3
	203-0059	1	Key 4 - Spec A thru H
	203-0120	1	Key 5
	203-0009	1	Key 6, 12 Volt
	203-0009	1	Key 6, 24 Volt
	203-0009	1	Key 7
	203-0117	1	Key 8,9 - Spec A thru H
	203-0049	1	Key 10
29	COLLECTOR RING		
	204-0047	1	Key 1,2
	204-0087	1	Key 3
	204-0087	1	Key 4 - Spec A thru H
	204-0097	1	Key 4 - Begin Spec J
	204-0061	1	Key 8,9 - Spec A Only
	204-0087	1	Key 8,9 - Spec B thru H
	204-0097	1	Key 8,9 - Begin Spec J
30	104-0091	1	Nut, Hex - Special
31	526-0029	1	Washer, Flat (25/64 ID x 7/8 OD x 1/16" Thk)
32	850-0050	1	Washer, Lock (3/8)
33	815-0202	4	Screw, Round Head-Brass Brush Rig-W/ET (10-32 x 1/2")
34	516-0079	4	Pin, Roll - Pole Shoe - Units W/4 Pole Shoes (1/4 x 1")
35	815-0181	2	Screw, Hex Head - End Bell Cover Clip (10-32 x 1/2")
36	800-0051	4	Screw, Cap - Hex Head Pole Shoe (3/8-16 x 1-1/4")

CONTROL



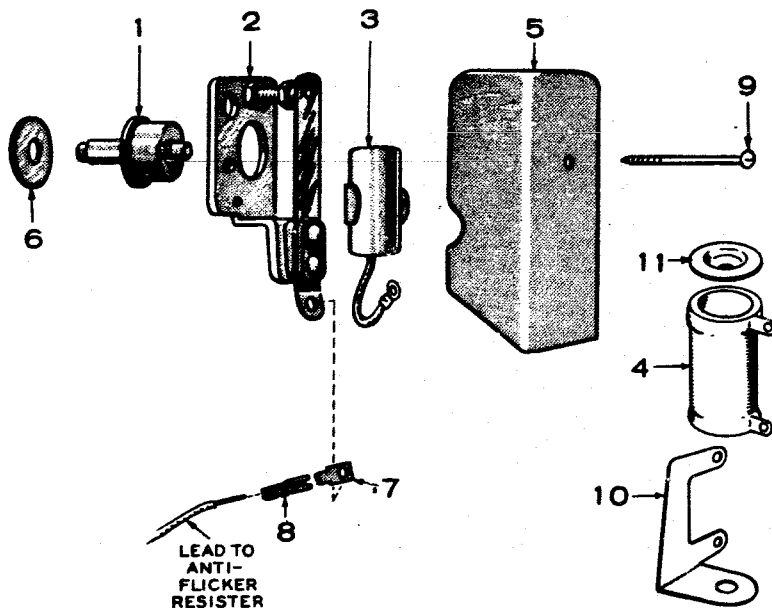
CONTROL

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	BOX, CONTROL			15	RECEPTACLE, DUPLEX		
1	301-1127	1	Key 5 (Also Key 6 - Spec A through F)		323-0048	1	Key 1,3,8,9 - Spec A (2 Prong)
	301-1128	1	Key 7, Spec A through G (Also Key 6 - Spec G Only)				Key 1,3,8,9,10 - Begin Spec B
	301-1868	1	Key 6 (24 Volt), 7 - Spec H through L		323-0383	1	125 Volt, 3 Prong (2 Parallel Blades, 1 Grounding Pin)
	301-1868	1	Key 6 (12 Volt) - Spec H through L		323-0213	1	240 Volt, 3 Prong (2 Tandem Blades, 1 Grounding Pin)
	301-3412	1	Key 6 & 9, Begin Spec M		BOX, RECEPTACLE		
2			Key 2,4	16	330-0043	1	Key 9 - Spec A Through B and Key 10 - Spec A Through G
	301-1059	1	Spec A through G	16A	301-1373	1	Key 8,9 - Spec C Thru G
	301-1859	1	Begin Spec H	16A	330-0028	1	Key 8,9,10 - Begin Spec H
	301-2233	1	Key 7 (Onan Porta-Charge Models Only)		COVER, RECEPTACLE BOX		
3	COVER, CONTROL BOX			16B	330-0042	1	Key 10, Key 9 - Spec A thru B and Begin Spec H, Key 8 - Begin Spec H
	301-1060	1	Key 2,5,6,7 - Spec A thru G (Also Key 4 with No Load Transfer)	16C	301-1392	1	Key 8,9 - Spec C through G
	301-1492	1	Key 4 (With Load Transfer Control Only)	17	RESISTOR, CHARGE, ADJUSTABLE—KEY 2,4		
	301-1858	1	Key 2,4,6,7 - Begin Spec H		304-0066	1	10-Ohm, 50 Watt (3/4 x 4") — Spec A through G
	BRACKET, RECEPTACLE BOX				304-0268	1	5-Ohm, 50 Watt (3/4 x 4") - Begin Spec H
4	301-1204	1	Key 8,9 - Spec C thru G	18	416-0077	2	Cable, Battery (28") - Key 2,4
5	SWITCH, START SOLENOID			18A	416-0004	1	Cable, Battery Jumper (6-3/4") - Key 2,4
	307-1046	1	Key 2,4,5 (Key 6 - 12 Volt)	19	308-0165	1	Switch & Plate, Remote Start-Stop (Optional) - Key 2,4
	307-0061	1	Key 7 (Key 6 - 24 Volt)	20	508-0098	1	Bushing, Insulating - Key 1,3,8,9
5	307-0061	1	Switch, Solenoid, Charge (Key 7, Porta-Charge Models Only)	21	301-0974	1	Bracket, Start-Stop Switch, Key 2,4 - Used on some early models
	RELAY, REVERSE CURRENT			22	302-0270	1	Bracket, Meter - Key 2,4,5,6,7
6	307-0180	1	Key 2,4	23	332-0142	1	Terminal, Solderless Keys 1,2,3,4,7,8 & 9
7	307-0145	1	Key 5	24	322-0021	1	Receptacle, Pilot Light - Key 8,9 - Spec C thru G
7	358-0041	1	Key 6,7 (24 Volt Models) - Spec A through L	25	322-0022	1	Guard, Pilot, Key 8,9 - Spec C through G
7	307-0496	1	Key 7 (32 Volt Models) - Spec C through L	26	BULB, PILOT LIGHT - Key 8,9		
7	307-0144	1	Key 6 - Spec G (12 Volt Models)		322-0059	1	240 Volt - Spec C through G
7A	358-0078	1	Key 6 - Spec H thru L (12 Volt Models)		322-0011	1	120 Volt - Spec C through G
7B	301-0592	1	Insulator, Key 7 - Spec A Through L (Also Key 6 - 24 Volt Models and 12 Volt Models, Spec G Through L)	27	508-0002	1	Grommet, Start-Disconnect Relay Cover, Key 4 - Spec A through G (Use with Load Transfer Only)
8	AMMETER, CHARGE			28	300-0224	1	Relay Assembly, Start-Disconnect (Complete), Key 4 - Spec A through G (Use with Load Transfer Only)
	302-1360	1	Key 2,4	29	307-1978	1	Relay, Start-Disconnect, Key 4 - Spec A through G (Use with Load Transfer Only)
	302-1475	1	Key 5	30	301-1493	1	Cover, Start-Disconnect Relay, Key 4 - Spec A through G (Use with Load Transfer Only)
	302-1363	1	Key 6 (12 Volt)				
	302-1362	1	Key 7 (Also Key 6, 24 Volt)				
9	308-0002	1	Switch, Hi-Lo Charge Rate - Key 2				
	SWITCH, START-STOP—KEY 2,4						
10	308-0166	1	Spec A through G				
10A	308-0154	1	Begin Spec H				
	SWITCH, START OR STOP—KEY 6,7						
11	308-0029	2	Spec A through G				
11A	308-0155	2	Begin Spec H				
12	332-0198	1	Bracket, Terminal Block - Key 2,4,5,6,7				
13	332-0222	1	Block, Terminal - Key 2,4,5,6,7				
14	332-0125	1	Stud, Brass (1/4-20 x 1-3/4") - Key 5,6,7 - Spec A thru G				

CONTROL (Continued)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
31	BRACKET, RECEPTACLE BOX			36	358-0019	1	Rectifier, Diode - Key 6,7 - Begin Spec M
	301-1983	1	Key 1,3 - Begin Spec H	37	363-0059	1	Sink, Heat - Rectifier Mounting - Key 6,7 - Begin Spec M
	301-1609	1	Key 10 - Spec A through G	38	870-0196	4	Nut, Insulating - Heat Sink Mounting - Key 6,7 - Begin Spec M
	301-1869	1	Key 8,9,10 - Begin Spec H	39	809-0035	4	Screw, Round Head - Sheet Metal Heat Sink Mounting - Key 6,7 - Begin Spec M (#8 x 3/4")
32	330-0016	1	Cover, Receptacle Box, Key 1,3 - Spec A through G (Also Key 8 - Spec A thru B)	40	853-0005	4	Washer, Lock - Heat Sink Mounting - Key 6,7 - Begin Spec M - ET (#8)
33	323-0203	1	Box, Receptacle, Key 1,3 - Prior to Spec E (Also Key 8 - Spec A through B), Includes Bracket				
34	330-0005	1	Box, Receptacle, Key 1,3 - Spec E through G (Mounts on Fuel Tank Bracket)				
35	PLUG, 3 PRONG						
	323-0215	1	Parallel Blades (120 Volt)				
	323-0216	1	Tandem Blades (240 Volt)				

ANTI-FLICKER



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	160-0447	1	Plunger Assembly (Plunger, Guide, Diaphragm) Gasket #160-0461 not included
2	160-0478	1	Point Set
3	312-0019	1	Condenser, 0.5 Mfd
4	RESISTOR, FIXED (Mounted in Generator)		LISTED ALSO IN GENERATOR GROUP
	304-0250	1	Key 1, 2 50 Hertz Sets - Spec A thru G
	304-0315	1	60 Hertz Sets - Spec A thru G
	304-0132	1	60 Hertz Sets - Begin Spec H
	304-0321	1	Key 3, 4 Spec A through G
	304-0168	1	Begin Spec H
	304-0159	1	Key 10, Spec A through G
5	166-0254	1	Cover, Contact Points
6	160-0461	1	Gasket, Plunger Guide
7	332-0527	1	Terminal, Solderless, Male
8	332-0529	1	Terminal, Solderless, Female
9	815-0187	1	Screw, Self Tapping (#10-32 x 1-1/4") - Cover Mounting
10	304-0304	1	Bracket, Resistor Mounting (Listed also in Generator Group)
11	304-0014	2	Washer, Resistor Centering, 9/16 OD (Listed also in Generator Group)

SERVICE KITS AND MISCELLANEOUS

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	98-1100	1	Decal Kit, Set
	168-0062	1	Gasket Kit, Set
	TOUCH-UP PAINT (Pressurized Can)		
	525-0137	1	Metallic Green (13 oz.)
	525-0305	1	Non-Metallic Green (13 oz.)
	412-0004	1	Cover, Canvas, Weatherproof (Accessory)
	405-2243	1	Housing Kit, Generator Set
	OVERHAUL KIT—STANDARD (Does Not Include Generator Brushes)		
	522-0213	1	Spec A through K
	522-0233	1	Begin Spec L

NOTE: For other kits, refer to the group for the part in question.

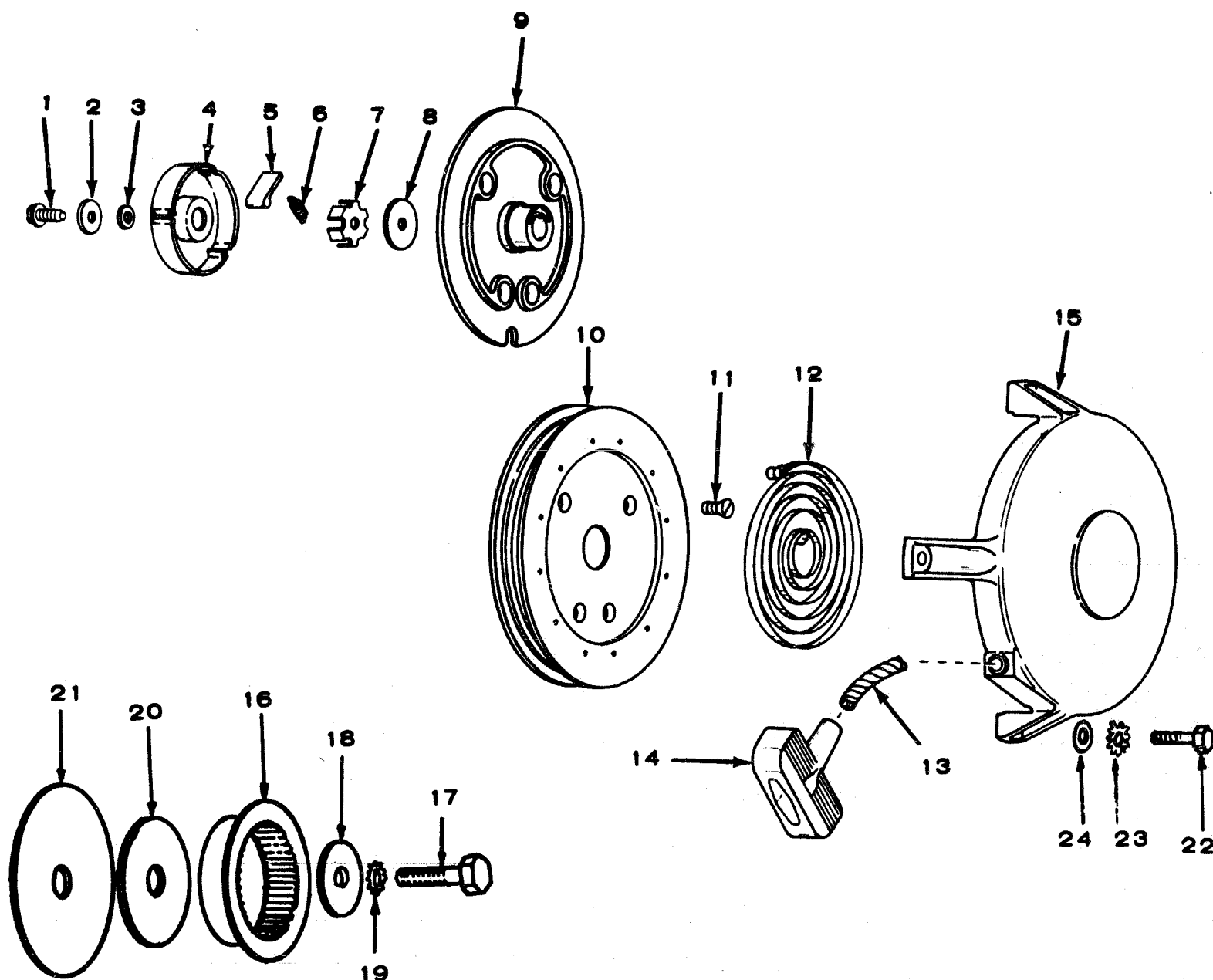
OPTIONAL EQUIPMENT PARTS SECTION

This section contains illustrated parts listing of factory installed options for the generator sets. Options may not be applicable to all models; for field conversions additional parts are usually required. Optional parts listed in this section are in addition or in place of those shown in the standard parts section.

FUEL SYSTEM (GAS AND GAS-GASOLINE) - OPTIONAL (Not Illustrated)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	148-0510	1	Kit, Gas Conversion, Contains Garretson Regulator Plus Required Parts		148-0268	1	Valve, Main Adjusting Needle, Key 8,9,10 - Spec H through K and Key 1 through 7 - Serial #626862 thru Spec K
	CARBURETOR, GAS-GASOLINE (Includes Mounting Gasket) Begin Spec L				148-0412	1	Counterweight, Choke (Gas Only) For Key 8,9,10 - Spec A through G & Key 1 through 7 - Prior to Serial #626862. Also order 815-0230 counterweight adjusting screw
	146-0298	1	Key 6 - Manual Choke		149-0136	1	Cover, Fuel Pump Opening
	146-0299	1	Key 7 - Electric Choke		149-0003	1	Gasket, Fuel Pump Opening Cover
	148-0428	1	*Regulator, Gas Pressure (Ensign Manufacture Model F1)		505-0017	1	Bushing, Reducer (3/8" to 1/4") (For Garretson Regulator)
	148-0311	1	*Regulator, Gas Pressure (Garretson Manufacture)		505-0021	1	Bushing, Reducer (3/4" to 1") (For Ensign Regulator)
	501-0025	1	Hose, Regulator-to-Carburetor (For Ensign Manufacture Regulator Only)		505-0099	1	Nipple, Close (1/4" x 7/8") (For Garretson Regulator)
	503-0315	1	Hose, Regulator-to-Carburetor (For Garretson Manufacture Regulator Only)		505-0038	1	Elbow, 1/4" (For Garretson Regulator)
	503-0027	1	Clamp, Hose (For Ensign Manufacture Regulator)		505-0302	1	Nipple, Half (1/4" x 1-1/2") (For Garretson Regulator)
	503-0032	1	Clamp, Hose (For Garretson Manufacture Regulator)		505-0057	1	Plug, Pipe (1/8")
	148-0107	1	Vent, Atmospheric (For Garretson Manufacture Regulator Only)		148-0390	1	Repair Kit, Gas Regulator (Garretson Regulator)
	148-0269	1	Plate, Choke - Spec A through K		148-0300	1	Repair Kit, Gas Regulator (Ensign Regulator Model F)
	803-0002	1	Screw, Set - Counterweight- to-Choke Shaft - Spec A through K (8/32 x 3/16")		148-0522	1	Repair Kit, Gas Regulator (Ensign Regulator Model F1)
	148-0268	1	Valve, Main Adjusting Needle, Key 8,9,10 - Spec A through G and Key 1 through 7 - Prior to Serial #626862	* - Order components according to manufacturer's name on regulator.			

READI-PULL STARTER (HEAVY DUTY) PRESSURE COOLED UNITS—OPTIONAL

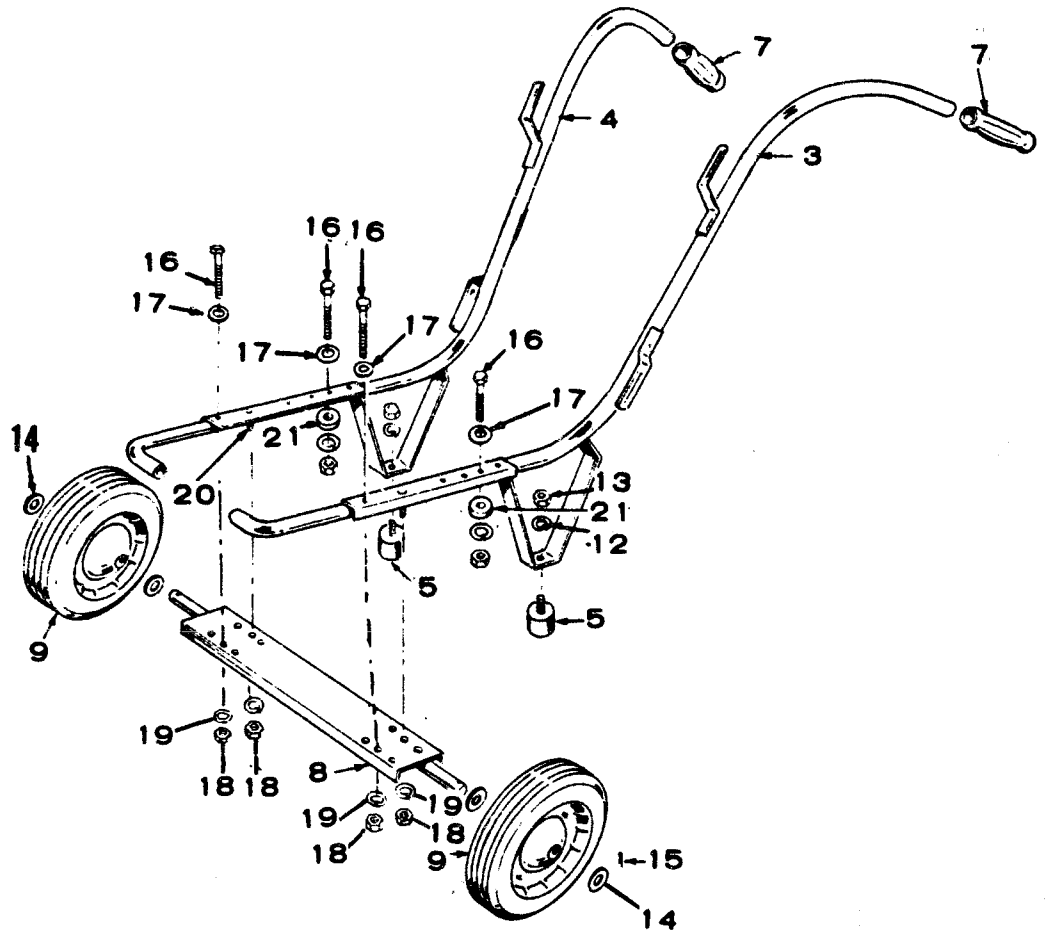
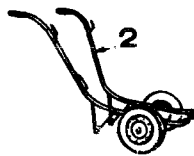
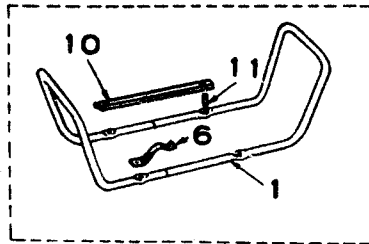


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	192-0363	1	Starter, Recoil - Heavy Duty (Includes Parts Marked *)
1	192-0371	1	*Screw, Retainer - Special
2	192-0372	1	*Washer, Brake
3	192-0373	1	*Washer, Spacer
4	192-0374	1	*Retainer
5	192-0375	3	*Dog, Starter
6	192-0376	1	*Spring, Retainer
7	192-0377	1	*Brake
8	192-0378	1	*Washer, Thrust
9	192-0379	1	*Pulley
10	192-0380	1	*Sheave Assembly, Starter
11	192-0381	4	*Screw, Flat Head - Special
12	192-0382	1	*Spring, Starter
13	192-0224	1	*Rope, Starter
14	192-0282	1	*Handle, Starter
15	192-0383	1	*Housing, Starter
16	192-0364	1	Cup, Starter Engaging

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
17	800-0080	1	Screw, Cap - Hex Head (7/16-14 x 3-1/4" lg)
18	526-0141	1	Washer, Flat (15/32" ID x 1-1/4" OD x 1/8" Thk)
19	856-0012	1	Washer, Lock - External/ Internal (7/16")
20	526-0172	1	Washer, Flat (Spacer) (1/2" ID x 2-1/4" OD x 1/4" Thk)
21	526-0195	1	Washer, Flat (Spacer) (29/64" ID x 3-1/4" OD x 1/8" Thk)
22	800-0005	4	Screw, Cap - Hex Head (1/4-20 x 3/4" lg)
23	856-0006	4	Washer, Lock (External/ Internal) (1/4")
24	526-0021	4	Washer, Flat (17/64" ID x 3/4" OD x 1/16" Thk)

* - Parts Included in 192-0363 Starter Assembly

CARRYING FRAME AND DOLLY-OPTIONAL **KEY 1,3,8,10**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	FRAME, CARRYING 403-0365	1	Key 1,3,8,10 (Optional) Includes Hardware
	403-0744	1	Key 9 (Standard Equipment) Complete assembly with mounting cushions, channel, supports, etc. (29" lg)
2	410-0219	1	Dolly, Complete (2 Wheel)- (Includes Parts Marked * Plus Hardware)
3	410-0216	1	*Base and Handle, Right, Less Grip
4	410-0215	1	*Base and Handle, Left, Less Grip (Carburetor Side)
5	402-0040	2	*Cushion, Rubber
6	STRAP (Ground) BLOWER HOUSING TO CARRYING FRAME 337-0044	1	Key 1,3,8,10 (6" lg) Optional Equipment
	337-0051	1	Key 9 (3" lg) Standard Equipment
7	403-0205	2	*Grip, Rubber
8	410-0222	1	*Axle
9	410-0223	2	*Wheel and Tire, 10 x 2.50"
10	402-0170	2	**Channel, Engine Mounting (Only with 403-0455 Carrying Frame Key 9)
11	402-0171	4	*Support, Engine Mounting Channel (Only with 402-0455 Carrying Frame, Key 9)
12	850-0045	2	Washer, Lock - Spring (5/16")

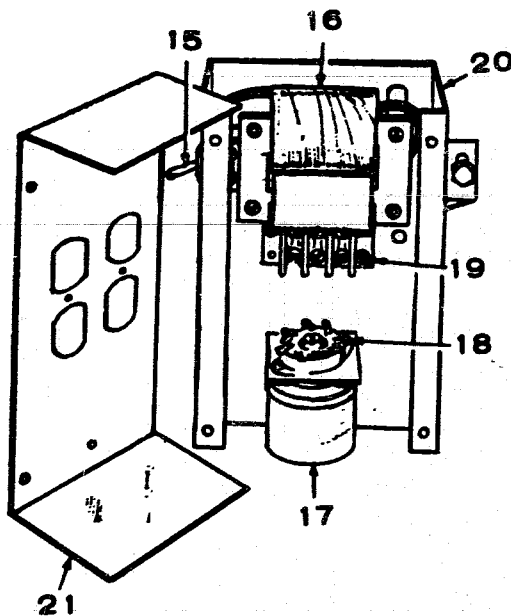
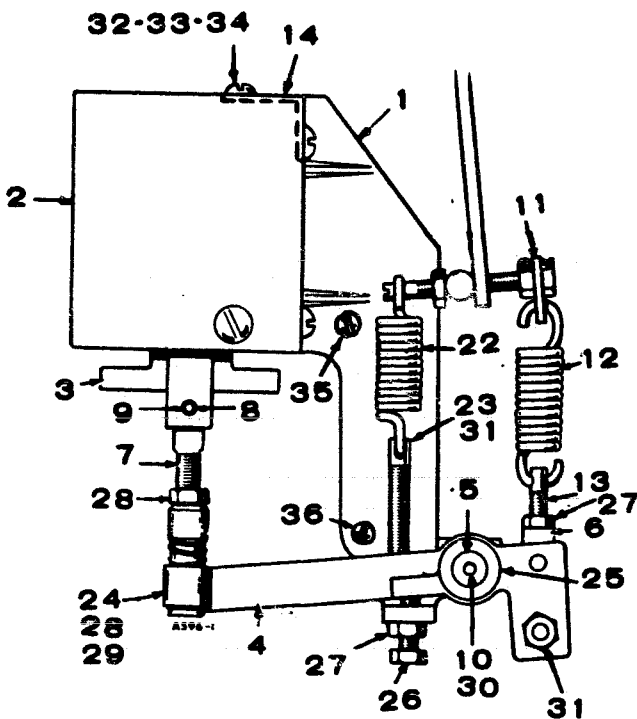
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
13	862-0015	2	Nut, Hex (5/16-18)
14	526-0112	4	Washer, Flat (11/16" ID x 1-3/8" OD x 7/64" Thk)
15	516-0042	2	Pin, Cotter (1/8 x 1")
16	800-0058	4	Screw, Cap - Hex Head (3/8-16 x 3" lg)
17	526-0123	4	Washer, Flat (25/64" ID x 1-1/4" OD x .0598" Thk)
18	860-0017	8	Nut, Hex (3/8-16)
19	850-0050	8	Washer, Lock - Spring (3/8")
20	814-0203	2	Screw, Machine - Flat Head (3/8-16 x 2" lg)
21	526-0030	4	Washer, Flat (13/32" ID x 7/8" OD x 1/8" Thk)
	403-0174	1	Bracket Kit, Quick Release (Accessory for use with Carrying Frame) Not Illustrated

* - Parts Included in 410-0219 Dolly Assembly.

** - Two types of Carrying Frames were used, (a) Obsolete type 403-0388 and 403-0389 had ROUND mounting holes in the frame and used CAPSCREWS: (b) Superseding type 403-0455 has SQUARE mounting holes in the underside of the frame for CARRIAGE BOLTS and uses (2) Engine Mounting Channels 402-0170 and (4) Channel Support 402-0171.

NOTE: Dolly equipment is OPTIONAL for Sets with Key 1,3,8 & 10. Dolly equipment is NOT designed for Portable Models (Key 9).

IDLEMATIC CONTROL - OPTIONAL



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	150-0792	1	*Bracket, Solenoid
2	150-0795	1	Cover, Solenoid
3	SOLENOID, IDLE		
	307-0604	1	120 Volt Models
	307-0669	1	240 Volt Models
4	150-0794	1	*Lever, Idle
5	510-0073	1	*Bearing, Idle Lever
6	150-0639	1	Joint, Ball - Idle Lever to Spring
7	145-0241	1	Link, Solenoid
8	508-0091	2	Bushing, Solenoid Plunger
9	516-0125	1	Pin, Link-to-Solenoid
10	815-0231	1	Bolt, Stripper (1/4-20 x 3/4") - Idle Lever
11	150-0793	1	Link, Idle Control
12	150-0115	1	Spring, Idle Control
13	150-0796	1	Stud, Idle Control
14	518-0192	3	Clip, Angle - Solenoid Mounting
15	308-0002	1	Switch, Idle Solenoid
16	302-0147	1	Transformer
17	307-0062	1	Relay, Idle Control
18	323-0052	1	Socket Relay - Idle Control
19	332-0406	1	Block, Terminal (3 Place)
20	301-1898	1	Box, Receptacle
21	301-1899	1	Cover, Receptacle Box
22	150-0098	1	Spring, Governor
23	150-0213	1	Stud, Governor
24	150-0638	1	Joint, Ball - Idle Lever to Solenoid
25	526-0115	1	Washer, Flat (11/32" ID x 11/16" OD x 1/16" Thk)
26	815-0178	1	Screw Hex Head - Machine (10-32 x 5/8" lg)
27	870-0053	2	Nut, Hex (#10-32)
28	115-0025	2	Nut, Hex - Special
29	850-0040	1	Washer, Lock - Spring (1/4")
30	862-0001	1	Nut, Hex (1/4-20)
31	870-0131	2	Nut, Lock (#10-32)
32	812-0100	8	Screw, Machine - Round Head (#10-24 x 1/2" lg)
33	860-0011	2	Nut, Hex (#10-24)
34	850-0030	2	Washer, Lock - Spring (#10)
35	813-0102	2	Screw, Machine - Round Head (#10-32 x 5/8" lg)
36	813-0103	1	Screw, Machine - Round Head (#10-32 x 3/4" lg)

* - Prior to Serial #740000 Order 150-0972

**SPECIAL PARTS GROUP FOR FIRE DEPARTMENT (Portable) MODEL
(Formerly Designated by Number 114 in Model)**

Parts not listed here, use Key 9 for sets in Standard Groups

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	403-0748	1	Frame, Carrying - Complete With Mounting Cushions & Hardware (26" lg) - Later Models (Includes Parts Marked *)
	402-0076	6	*Cushion, Mounting - Upper - Later Models
	402-0075	2	*Bushing, Cushion Spacing - Engine End - Later Models
	402-0357	2	Channel, Engine Mounting - Later Models
	301-1900	1	Box, Receptacle
	301-1901	1	Cover, Receptacle Box
	149-0234	1	Guard, Pilot Lamp
	322-0011	1	Lamp, Pilot
	322-0021	1	Receptacle, Pilot Lamp
	149-0156	1	Gasket, Lamp Guard
	301-1902	1	Clamp, Lamp Guard
	323-0195	1	Receptacle, 3 Prong (2 Tandem Blades, 1 Grounding Pin)
	323-0140	3	Receptacle, Twistlock (2 Prong)

* - Parts Included in 403-0748 Carrying Frame.

SPECIAL PARTS LIST FOR MODEL 0.6AK-212E SPEC 1M
FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 6
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0334-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
159-0486	1	Bracket, Fuel Tank Mounting			
508-0001	1	Grommet, Rubber - Control Box (1-1/16" Hole)			
508-0006	1	Washer, Insulating - Control (1/4" x 3/8" x 3/64" Thk)			
508-0018	3	Washer, Fibre - Control Box (1/4" x 3/4" x 1/16" Thk)			
332-0125	1	Stud, Brass (1/4-20 x 1-3/4")			

SPECIAL PARTS LIST FOR MODEL 0.6AK-212R SPEC 1M
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 6
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0334-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
146-0093	1	Carburetor, Gasoline (Electric Choke)			
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
159-0486	1	Bracket, Fuel Tank Mounting			
508-0001	1	Grommet, Rubber - Control Box (1-1/16" Hole)			
508-0006	1	Washer, Insulating - Control (1/4" x 3/8" x 3/64" Thk)			
508-0018	3	Washer, Fibre - Control Box (1/4" x 3/4" x 1/16" Thk)			
332-0125	1	Stud, Brass (1/4"- 20 x 1-3/4")			

SPECIAL PARTS LIST FOR MODEL 0.7AK-224E SPEC 1M
FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 7
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0335-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
123-0788	1	Baffle, Breather			
505-0110	1	Plug, Oil Drain (3/8")			
149-1129	1	Line, Fuel Filter to Carb.			
140-1269	1	Adapter, Carburetor to Air Cleaner			
332-0142	1	Terminal, Solderless			
332-0125	1	Stud, Brass (1/4"- 20x 1-3/4")			

SPECIAL PARTS LIST FOR MODEL 0.7AK-232E SPEC 1M
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 7
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
 WIRING DIAGRAM NO. 610-0335-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
150-1519	1	Hub, Governor Cup			
150-1520	1	Cup, Governor			
114-0089	1	Dipper, Oil - Connecting Rod			
505-0110	1	Plug, Oil Drain (3/8")			
332-0142	1	Terminal, Solderless			
332-0125	1	Stud, Brass (1/4"- 20x 1-3/4")			

SPECIAL PARTS LIST FOR MODEL 0.6AK-212E SPEC 1N
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 6
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0334-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
159-0486	1	Bracket, Fuel Tank Mounting			
508-0001	1	Grommet, Rubber - Control Box (1-1/16" Hole)			
508-0006	1	Washer, Insulating - Control (1/4" x 3/8" x 3/64" Thk)			
508-0018	3	Washer, Fibre - Control Box (1/4" x 3/4" x 1/16" Thk)			
332-0125	1	Stud, Brass (1/4"-20 x 1-3/4")			

SPECIAL PARTS LIST FOR MODEL 0.6AK-212R SPEC 1N
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 6
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
 WIRING DIAGRAM NO. 610-0334-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
146-0093	1	Carburetor, Gasoline (Electric Choke)			
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
159-0486	1	Bracket, Fuel Tank Mounting			
508-0001	1	Grommet, Ruber - Control Box (1-1/16" Hole)			
508-0006	1	Washer, Insulating - Control (1/4" x 3/8" x 3/64" Thk)			
508-0018	3	Washer, Fibre - Control Box (1/4" x 3/4" x 1/16" Thk)			
332-0125	1	Stud, Brass (1/4"- 20x1-3/4")			

SPECIAL PARTS LIST FOR MODEL 0.7AK-224E SPEC 1N
FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 7
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0335-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
123-0788	1	Baffle, Breather			
505-0110	1	Plug, Oil Drain (3/8")			
149-1129	1	Line, Fuel Filter to Carb.			
140-1269	1	Adapter, Carburetor to Air Cleaner			
332-0142	1	Terminal, Solderless			
332-0125	1	Stud, Brass (1/4"- 20x 1-3/4")			

SPECIAL PARTS LIST FOR MODEL 0.7AK-232E SPEC 1N
FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 7
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0335-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
150-1519	1	Hub, Governor Cup			
150-1520	1	Cup, Governor			
114-0089	1	Dipper, Oil - Connecting Rod			
505-0110	1	Plug, Oil Drain (3/8")			
332-0142	1	Terminal, Solderless			
332-0125	1	Stud, Brass (1/4"- 20 x 1-3/4")			

WIRING DIAGRAM NO. 601-0137-02

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
505-0054	1	Plug, Oil Drain (1/4")			
502-0020	1	Elbow, Street - Fuel Pump Inlet (1/8" Pipe)			
134-1013	1	Shroud, Cylinder Air			
160-0144	2	Jumper, Duplex Receptacle			
358-0016	2	Rectifier, Generator			

SPECIAL PARTS LIST FOR MODEL 0.6AK-212E SPEC 12N
FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 6
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0334-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Gas-Gasoline Fuel System (Garretson Regulator)					
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
159-0486	1	Bracket, Fuel Tank Mounting			
146-0094	1	Carburetor, Gas-Gasoline			
508-0001	1	Grommet, Rubber - Control Box (1-1/16" Hole)			
508-0006	1	Washer, Insulating - Control (1/4" x 3/8" x 3/64" Thk)			
508-0018	3	Washer, Fibre - Control Box (1/4" x 3/4" x 1/16" Thk)			
332-0125	1	Stud, Brass (1/4"-20 x 1-3/4")			

SPECIAL PARTS LIST FOR **MODEL** 0.6AK-212R **SPEC** 49L
 FOR STANDARD PARTS REFER TO **CATALOG** 925-0220 **KEY NO.** 6
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
WIRING DIAGRAM NO. 610-0144-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
159-0486	1	Bracket, Fuel Tank Mounting			
146-0093	1	Carburetor, Gasoline (Electric Choke)			
502-0003	3	Connector, Inverted Male - (1) Fuel Filter Inlet (1) Fuel Pump Outlet (1) Carburetor Inlet			
508-0088	2	Washer, Fibre - Reverse Current Relay (11/64" x 1/2" x 1/8" Thk)			

SPECIAL PARTS LIST FOR MODEL 0.6AK-212R SPEC 49M
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 6
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0334-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
146-0093	1	Carburetor, Gasoline (Electric Choke)			
502-0003	3	Connector, Inverted Male - (1) Fuel Filter Inlet (1) Fuel Pump Outlet (1) Carburetor Inlet			
159-0486	1	Bracket, Fuel Tank Mounting			
508-0001	1	Grommet, Rubber - Control Box (1-1/16" Hole)			
508-0006	1	Washer, Insulating - Control (1/4" x 3/8" x 3/64" Thk)			
508-0018	3	Washer, Fibre - Control Box (1/4" x 3/4" x 1/16" Thk)			
332-0125	1	Stud, Brass (1/4"- 20 x 1-3/4")			

SPECIAL PARTS LIST FOR MODEL 0.6AK-212E SPEC 49N
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 6
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
 WIRING DIAGRAM NO. 610-0334-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
159-0486	1	Bracket, Fuel Tank Mounting			
502-0003	3	Connector, Inverted Male - (1) Fuel Filter Inlet (1) Fuel Pump Outlet (1) Carb. Inlet			
508-0001	1	Grommet, Rubber - Control Box (1-1/16" Hole)			
508-0006	1	Washer, Insulating - Control (1/4" x 3/8" x 3/64" Thk)			
508-0018	3	Washer, Fibre - Control Box (1/4" x 3/4" x 1/16" Thk)			
332-0125	1	Stud, Brass (1/4"x 20 x 1-3/4")			

SPECIAL PARTS LIST FOR **MODEL** 0.6AK-212R **SPEC** 49N
 FOR STANDARD PARTS REFER TO **CATALOG** 925-0220 **KEY NO.** 6
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0334-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
146-0093	1	Carburetor, Gasoline (Electric Choke)			
502-0003	3	Connector, Inverted Male - (1) Fuel Filter Inlet (1) Fuel Pump Outlet (1) Carburetor Inlet			
159-0486	1	Bracket, Fuel Tank Mounting			
508-0001	1	Grommet, Rubber - Control Box (1-1/16" Hole)			
508-0006	1	Washer, Insulating - Control (1/4"x 3/8"x 3/64" Thk)			
508-0018	3	Washer, Fibre - Control Box (1/4"x 3/4"x 1/16" Thk)			
332-0125	1	Stud, Brass (1/4"- 20x 1-3/4")			

SPECIAL PARTS LIST FOR MODEL 1.2AK-52P SPEC 96N
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 9
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 601-0138-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Low Oil Pressure Cut Off Momentary Contact Switch					
110-1834	1	Block Assembly, Cylinder (Refer to Standard Cylinder Block For Components, Except Rear Bearing Plate)			
101-0404	1	Plate, Rear Bearing			
505-0054	1	Plug, Oil Drain (1/4")			
502-0020	1	Elbow, Street - Fuel Pump Inlet (1/8" Pipe)			
134-1697	1	Bracket, Blower Housing			
134-1018	1	Shroud, Cylinder Air			
134-2402	1	Housing, Blower			
508-0002	1	Grommet, Rubber - Blower Housing (1/2" Hole)			
160-0144	2	Jumper, Duplex Receptacle			
358-0008	2	Rectifier, Generator			

WIRING DIAGRAM NO. 601-0139-02

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
505-0054	1	Plug, Oil Drain (1/4")			
502-0020	1	Elbow, Street - Fuel Pump Inlet (1/8" Pipe)			
134-1018	1	Shroud, Cylinder Air			
332-0517	1	Lug, Solderless			
358-0016	2	Rectifier, Generator			

SPECIAL PARTS LIST FOR MODEL 1.5AK-1P SPEC 1872L
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 9
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 601-0185-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
505-0054	1	Plug, Oil Drain (1/4")			
502-0020	1	Elbow, Street - Fuel Pump Inlet (1/8" Pipe)			
160-0777	1	Backplate Assembly, Magneto (Refer to Standard Backplate Assembly For Components, Except Parts Marked #)			
160-0495	1	#Backplate and Poleshoe			
336-1353	1	#Lead, Stop (Shielded)			
167-1359	1	#Lead, Spark Plug (Shielded)			
167-0081	1	Plug, Spark (Shielded)			
167-0091	1	Shield, Stop Switch			
134-1018	1	Shroud, Cylinder Air			
134-1184	1	Housing, Blower			
160-0144	2	Jumper, Duplex Receptacle			
312-0058	1	Condenser (250 Volt, 0.1 MFD)			
358-0016	2	Rectifier, Generator			

WIRING DIAGRAM NO. 601-0138-02

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
505-0054	1	Plug, Oil Drain (1/4")			
502-0020	1	Elbow, Street - Fuel Pump Inlet (1/8" Pipe)			
134-1018	1	Shroud, Cylinder Air			
160-0144	2	Jumper, Duplex Receptacle			
358-0008	2	Rectifier, Generator			

SPECIAL PARTS LIST FOR MODEL 0.7AK-232E SPEC 8100L
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 7
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0142-02

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Vacu-Flo Cooling					
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
114-0089	1	Dipper, Oil - Connecting Rod			
505-0110	1	Plug, Oil Drain (3/8")			
505-0132	1	Elbow, Pipe - Exhaust (3/4" x 90°)			
332-0142	1	Terminal, Solderless			
508-0088	2	Washer, Fibre - Reverse Current Relay (11/64"x 1/2"x 1/8" Thk)			

SPECIAL PARTS LIST FOR MODEL 0.6AK-212E SPEC 8100M
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 6
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0334-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Vacu-Flo Cooling					
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
159-0486	1	Bracket, Fuel Tank Mounting			
508-0001	1	Grommet, Rubber - Control Box (1-1/16" Hole)			
508-0006	1	Washer, Insulating - Control (1/4" x 3/8" 3/64" Thk)			
508-0018	3	Washer, Fibre - Control Box (1/4" x 3/4" x 1/16" Thk)			
332-0125	1	Stud, Brass (1/4"-20 x 1-3/4")			

SPECIAL PARTS LIST FOR MODEL 0.6AK-212E SPEC 8100N
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 6
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0334-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Vacu-Flo Cooling					
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
159-0486	1	Bracket, Fuel Tank Mounting			
508-0001	1	Grommet, Rubber - Control Box (1-1/16" Hole)			
508-0006	1	Washer, Insulating - Control (1/4"x 3/8"x 3/64" Thk)			
508-0018	3	Washer, Fibre - Control Box (1/4"x 3/4"x 1/16" Thk)			
332-0125	1	Stud, Brass (1/4"-20 x 1-3/4")			

SPECIAL PARTS LIST FOR MODEL 0.7AK-232E SPEC 8390L
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 7
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0165-02

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Gas Fuel System (Garretson Regulator)					
Vacu-Flo Cooling					
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
114-0089	1	Dipper, Oil - Connecting Rod			
505-0110	1	Plug, Oil Drain (3/8")			
505-0132	1	Elbow, Pipe - Exhaust (3/4"x 90°)			
508-0088	2	Washer, Fibre - Reverse Current Relay (11/64"x 1/2"x 1/8" Thk)			
134-1018	1	Shroud, Cylinder Air			
146-0091	1	Carburetor, Gas (Refer to Standard Carburetor For Components)			

SPECIAL PARTS LIST FOR MODEL 0.7AK-224E SPEC 8462M
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 7
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0335-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Gas Fuel System (Garretson Regulator)					
Vacu-Flo Cooling					
150-1519	1	Hub, Governor Cup			
150-1520	1	Cup, Governor			
505-0110	1	Plug, Oil Drain (3/8")			
505-0277	1	Nipple, Oil Drain (3/8"x 1-1/2" Lg)			
110-0558	2	Washer, Valve Spring Retainer			
505-0132	1	Elbow, Pipe - Exhaust (3/4" x 90°)			
505-0438	1	Nipple, Exhaust (3/4"x 8" Lg)			
146-0091	1	Carburetor, Gas (Refer to Standard Gas Carburetor For Components)			
140-1045	1	Air Cleaner (Includes Parts Marked #)			
145-0111	1	#Gasket, Carburetor to Air Cleaner			
140-0408	1	#Element, Air Cleaner			
503-0343	1	Hose, Breather			
134-1018	1	Shroud, Cylinder Air			
301-1280	1	Panel, Receptacle			
416-0014	1	Cable, Battery (15" Lg)			
416-0077	1	Cable, Battery (28" Lg)			
403-0523	1	Base, Skid			
416-0343	1	Tray, Battery			
405-0952	1	Panel, Housing - Rear			
405-1130	1	Housing (Cover)			
416-0344	1	Band, Battery			
405-1057	1	Shield, Rain			
134-0952	1	Box, Air Outlet			
416-0477	1	Shield, Battery Heat			
301-1292	1	Cover, Receptacle Panel			
405-0992	1	"U" Bolt, Rear Panel			
405-0991	1	Cord, Cover Support			
155-0487	1	Muffler, Exhaust			
337-0051	1	Strap, Bond			
505-0051	1	Elbow, Street (3/4")			
508-0008	1	Grommet, Rubber (13/16" Hole)			
505-0028	1	Coupling, Pipe (3/8")			
403-0522	4	Handle, Carrying			
402-0154	4	Mounting Cushion Package (Refer to Standard Mtg. Package for Components, Except Parts Marked *)			
800-0035	4	*Screw, Cap - Hex Head (5/16" - 18 x 2-1/2" Lg)			
332-0142	1	Terminal, Solderless			
332-0125	1	Stud, Brass (1/4"- 20x 1-3/4")			

SPECIAL PARTS LIST FOR **MODEL** 0.7AK-224E **SPEC** 8462N
FOR STANDARD PARTS REFER TO CATALOG 925-0220 **KEY NO.** 7
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0335-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Gas Fuel System (Garretson Regulator)					
Vacu-Flo Cooling					
150-1519	1	Hub, Governor Cup			
150-1520	1	Cup, Governor			
505-0110	1	Plug, Oil Drain (3/8")			
505-0277	1	Nipple, Oil Drain (3/8" x 1-1/2" Lg)			
110-0558	2	Washer, Valve Spring Retainer			
505-0132	1	Elbow, Pipe - Exhaust (3/4" x 90°)			
505-0438	1	Nipple, Exhaust (3/4"x 8" Lg)			
146-0091	1	Carburetor, Gas (Refer to Standard Gas Carburetor For Components)			
140-1045	1	Air Cleaner (Includes Parts Marked #)			
145-0111	1	#Gasket, Carburetor to Air Cleaner			
140-0408	1	#Element, Air Cleaner			
503-0343	1	Hose, Breather			
134-1018	1	Shroud, Cylinder Air			
301-1280	1	Panel, Receptacle			
416-0014	1	Cable, Battery (15" Lg)			
416-0077	1	Cable, Battery (28" Lg)			
403-0523	1	Base, Skid			
416-0343	1	Tray, Battery			
405-0952	1	Panel, Housing - Rear			
405-1130	1	Housing (Cover)			
416-0344	1	Band, Battery			
405-1057	1	Shield, Rain			
134-0952	1	Box, Air Outlet			
416-0477	1	Shield, Battery Heat			
301-1292	1	Cover, Receptacle Panel			
405-0992	1	"U" Bolt, Rear Panel			
405-0991	1	Cord, Cover Support			
155-0487	1	Muffler, Exhaust			
337-0051	1	Strap, Bond			
505-0051	1	Elbow, Street (3/4")			
508-0008	1	Grommet, Rubber (13/16" Hole)			
505-0028	1	Coupling, Pipe (3/8")			
403-0522	4	Handle, Carrying			
402-0154	4	Mounting Cushion Package (Refer to Standard Mtg. Package for Components, Except Parts Marked *)			
800-0035	4	*Screw, Cap - Hex Head (5/16"- 18" x 2-1/2" Lg)			
332-0142	1	Terminal, Solderless			
332-0125	1	Stud, Brass (1/4"- 20x 1-3/4")			

SPECIAL PARTS LIST FOR **MODEL** 0.6-AK-212E **SPEC** 8488N
 FOR STANDARD PARTS REFER TO **CATALOG** 925-0220 **KEY NO.** 6
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0334-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Vacu-Flo Cooling					
150-1520	1	Cup, Governor	505-0277	1	Nipple, Oil Drain (3/8" x 1-1/2" Lg)
150-1519	1	Hub, Governor Cup	508-0001	1	Grommet, Rubber - Control Box (1-1/16" Hole)
159-0590	1	Tank, Fuel (3 Gal.)	508-0006	1	Washer, Insulating - Contr (1/4" x 3/8" x 3/64" Thk)
159-0606	2	Band, Fuel Tank	508-0018	3	Washer, Fibre - Control Bc (1/4" x 3/4" x 1/16" Thk)
159-0007	1	Cap, Fuel Tank	301-1621	1	Panel, Start-Stop Switch
502-0020	1	Elbow, Fuel Tank Outlet	332-0125	1	Stud, Brass (1/4-20 x 1-3/4")
501-0007	1	Line, Fuel - Flexible (24" Lg)	332-0142	1	Terminal, Solderless
505-0061	1	Nipple, Fuel (1/8" x 2" Lg)			
502-0017	1	Connector, Inverted Female			
140-0369	1	Air Cleaner (Includes Parts Marked #)			
145-0111	1	#Gasket, Carb to Air Cleaner			
140-0408	1	#Element, Air Cleaner			
503-0343	1	Hose, Breather			
416-0014	1	Cable, Battery (15" Lg)			
416-0077	1	Cable, Battery (28" Lg)			
403-0523	1	Base, Skid			
416-0343	1	Tray, Battery			
405-0952	1	Panel, Housing - Rear			
405-1130	1	Housing (Cover)			
416-0344	1	Band, Battery			
405-1057	1	Shield, Rain			
134-0952	1	Box, Air Outlet			
416-0477	1	Shield, Battery Heat			
301-1292	1	Cover, Receptacle Panel			
405-0992	1	"U" Bolt, Rear Panel			
405-0991	1	Cord, Cover Support			
155-0487	1	Muffler, Exhaust			
337-0051	1	Strap, Bond			
505-0051	1	Elbow, Street (3/4")			
505-0438	1	Nipple, Exhaust (3/4" x 8" Lg)			
505-0132	1	Elbow, Pipe - Exhaust (3/4" x 90°)			
508-0008	1	Grommet, Rubber (13/16" Hole)			
505-0028	1	Coupling, Pipe (3/8")			
403-0522	4	Handle, Carrying			
402-0154	4	Mounting Cushion Package (Refer to Standard Mtg. Package for Components, Except Parts Marked *)			
800-0035	4	*Screw, Cap - Hex Head (5/16-18 x 2-1/2" Lg)			

SPECIAL PARTS LIST FOR MODEL 0.7AK-224E SPEC 9679L
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 7
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0145-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
505-0110	1	Plug, Oil Drain (3/8")			
159-0486	1	Bracket, Fuel Tank Mounting			
159-0488	1	Tank, Fuel (1.4 Gal.)			
159-0154	2	Band, Tank Mounting			
159-0538	1	Line, Fuel - Filter to Carb			
502-0065	1	Elbow, Inverted - Filter Outlet (45°)			
159-0007	1	Cap, Fuel Tank			
508-0088	2	Washer, Fibre - Reverse Current Relay (11/64"x 1/2"x 1/8" Thk)			

SPECIAL PARTS LIST FOR MODEL 1.5AK-1P SPEC 11066N
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 9
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 601-0137-02

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Heavy Duty Recoil Starter					
Low Oil Pressure Cut Off					
Momentary Contact Switch					
110-1834	1	Block Assembly, Cylinder (Refer to Standard Cylinder Block For Components, Except Rear Bearing Plate			
101-0404	1	Plate, Rear Bearing			
505-0054	1	Plug, Oil Drain (1/4")			
502-0020	1	Elbow, Street - Fuel Pump Inlet (1/8" Pipe)			
134-1697	1	Bracket, Blower Housing			
134-1018	1	Shroud, Cylinder Air			
134-2402	1	Housing, Blower			
508-0002	1	Grommet, Rubber - Blower Housing (1/2" Hole)			
160-0144	2	Jumper, Duplex Receptacle			
358-0016	2	Rectifier, Generator			

SPECIAL PARTS LIST FOR MODEL 0.7AK-224R SPEC 12702M
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 7
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
 WIRING DIAGRAM NO. 610-0335-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Gas Fuel System (Garretson Regulator)					
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
505-0110	1	Plug, Oil Drain (3/8")			
110-0558	2	Washer, Valve Spring Retainer			
146-0091	1	Carburetor, Gas (Refer to Standard Gas Carburetor For Components)			
134-1018	1	Shroud, Cylinder Air			
332-0142	1	Terminal, Solderless			
332-0125	1	Stud, Brass (1/4"- 20 x 1-3/4")			

SPECIAL PARTS LIST FOR MODEL 0.7AK-224R SPEC 12702N
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 7
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0335-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Gas Fuel System (Garretson Regulator)					
150-1520	1	Cup, Governor			
150-1519	1	Hub, Governor Cup			
505-0110	1	Plug, Oil Drain (3/8")			
110-0558	2	Washer, Valve Spring Retainer			
146-0091	1	Carburetor, Gas (Refer to Standard Gas Carburetor for Components)			
134-1018	1	Shroud, Cylinder Air			
332-0142	1	Terminal, Solderless			
332-0125	1	Stud, Brass (1/4"- 20x 1-3/4")			

SPECIAL PARTS LIST FOR MODEL 0.7AK-224R SPEC 13412N
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 7
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0335-02

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Gas-Gasoline Fuel System (Garretson Regulator)					
Vacu-Flo Cooling					
Low Oil Pressure Cut Off			145-0392	1	Spring, Choke
			159-0590	1	Tank, Fuel (3 Gal.)
			159-0606	2	Band, Fuel Tank
150-1519	1	Hub, Governor Cup	159-0007	1	Cap, Fuel Tank
150-1520	1	Cup, Governor	502-0020	1	Elbow, Fuel Tank Outlet
505-0110	1	Plug, Oil Drain (3/8")	501-0007	1	Line, Fuel - Flexible (24"
505-0277	1	Nipple, Oil Drain (3/8"x1-1/2")	332-0142	1	Terminal, Solderless
110-0558	2	Washer, Valve Spring Retainer	332-0125	1	Stud, Brass (1/4"-20"x1-3/
505-0132	1	Elbow, Pipe - Exhaust (3/4" x 90°)			
505-0438	1	Nipple, Exhaust (3/4"x 8" Lg)			
146-0095	1	Carburetor, Gas-Gasoline - Electric Choke (For Components Refer to Gas-Gasoline Carburetor 146-0132)			
140-1045	1	Air Cleaner (Includes Parts Marked #)			
145-0111	1	#Gasket, Carburetor to Air Cleaner			
140-0408	1	#Element, Air Cleaner			
503-0343	1	Hose, Breather			
134-1018	1	Shroud, Cylinder Air			
301-1280	1	Panel, Receptacle			
416-0014	1	Cable, Battery (15" Lg)			
416-0077	1	Cable, Battery (28" Lg)			
403-0523	1	Base, Skid			
416-0343	1	Tray, Battery			
405-0952	1	Panel, Housing - Rear			
405-1130	1	Housing (Cover)			
416-0344	1	Band, Battery			
405-1057	1	Shield, Rain			
134-0952	1	Box, Air Outlet			
416-0477	1	Shield, Battery Heat			
301-1292	1	Cover, Receptacle Panel			
405-0992	1	"U" Bolt, Rear Panel			
405-0991	1	Cord, Cover Support			
155-0487	1	Muffler, Exhaust			
337-0051	1	Strap, Bond			
505-0051	1	Elbow, Street (3/4")			
508-0008	1	Grommet, Rubber (13/16" Hole)			
505-0028	1	Coupling, Pipe (3/8")			
403-0522	4	Handle, Carrying			
402-0154	4	Mounting Cushion Package (Refer to Standard Mtg. Package for Components, Except Parts Marked *)			
800-0035	4	*Screw, Cap - Hex Head (5/16"-18 x 2-1/2" Lg)			

SPECIAL PARTS LIST FOR MODEL 0.7AK-224R SPEC 19853N
 FOR STANDARD PARTS REFER TO CATALOG 925-0220 KEY NO. 7
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 610-0335-02

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Housed Unit					
Battery Charger					
Gas/Gasoline Carburetor					
Vacu-Flo Cooling					
Low Oil Pressure Cut Off					
503-0343	1	Hose, Breather			
505-0438	1	Nipple, Exhaust (3/4 X 8")			
145-0392	1	Spring, Choke Lock			
148-0178	1	Valve Assembly, Adjustment - Gas (Includes Parts Marked ++)			
148-0010	1	++ Spring, Valve Assembly			
148-0131	1	++ Screw, Valve Assembly			
502-0055	1	Elbow, Pipe (90°) - Gas Valve Assembly			
332-0125	1	Stud, Brass (1/4-20 X 1 3/4")			
301-3412	1	Box, Control			
159-0590	1	Tank, Fuel (3 Gal.)			
505-0061	1	Nipple, Fuel Tank (1/8 X 2")			
502-0017	1	Connector, Inverted Female - Fuel Tank			
159-0606	2	Band, Tank Mounting			
502-0020	1	Elbow, Street - 90°			